Federal Funds for Research and Development: Fiscal Years 2011–13

Detailed Statistical Tables | NSF 14-312 | July 2014

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General Notes

This report is volume 61 of the Federal Funds series of detailed statistical tables. It presents data collected by the Survey of Federal Funds for Research and Development for FYs 2011–13. In May 2012, the survey was sent to all federal agencies identified as conducting R&D programs, and 27 agencies reported R&D funding levels. The basis for reporting is determined by fiscal year.

- FY 2011 data are completed transactions
- FY 2012 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions
- FY 2013 data are estimates of administration budget proposals not yet acted on

Subsequent volumes in this series will show authorization, appropriation, deferral, and apportionment actions completed after these data were collected.

The data tables provide R&D totals as outlays and obligations. Obligations data are sorted as follows:

- Character of work (basic research, applied research, development, and R&D plant)
- Federal agency
- Field of science or engineering (for research but not for development)
- Geographical area
- Performer

Each year, agencies report obligations or outlays incurred or expected to be incurred in that year, no matter when the agencies' funds were authorized, appropriated, or received. Agencies report R&D funding whether or not their budgets itemize funds for research, development, and R&D plant.

Because many agency R&D programs are not identified as budget line items, agency officials must identify R&D and R&D plant activities within broader programs. Accuracy of the data depends on how well federal respondents meet these survey requirements.

For trend comparisons, use only the historical data for FYs 1992–2013 in tables 107–42 of this report. These tables incorporate changes agencies have made in prior-year data to reflect program reclassifications. Do not use data published earlier.

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TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2013
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
1951	1,851,571.0	1,521,527.0	NA	NA	NA	330,044.0
1952	2,216,848.0	1,909,665.0	120,945.0	NA	NA	307,183.0
1953	2,167,456.0	1,919,543.0	115,997.0	NA	NA	247,913.0
1954	1,918,046.0	1,761,840.0	116,033.0	NA	NA	156,206.0
1955	2,251,894.0	2,044,593.0	130,068.0	NA	NA	207,301.0
1956	3,266,903.0	2,988,203.0	206,441.0	645,506.0	2,136,256.0	278,700.0
1957	4,389,237.0	3,932,001.0	262,348.0	662,199.0	3,007,454.0	457,236.0
1958	4,906,015.0	4,569,722.0	334,543.0	744,264.0	3,490,915.0	336,293.0
1959	7,122,610.0	6,693,510.0	465,981.0	874,272.0	5,353,257.0	429,100.0
1960	8,080,015.0	7,551,746.0	590,374.0	1,282,135.0	5,679,237.0	528,269.0
1961	9,607,023.0	9,058,623.0	814,513.0	1,663,431.0	6,580,679.0	548,400.0
1962	11,069,059.0	10,289,947.0	986,314.0	2,018,481.0	7,285,152.0	779,112.0
1963	13,662,879.0	12,494,611.0	1,151,753.0	2,356,150.0	8,986,708.0	1,168,268.0
1964	15,323,870.0	14,225,354.0	1,303,000.0	2,571,452.0	10,350,902.0	1,098,516.0
1965	15,745,852.0	14,614,249.0	1,435,469.0	2,811,761.0	10,367,019.0	1,131,603.0
1966	16,178,640.0	15,320,334.0	1,579,181.0	3,081,066.0	10,660,087.0	858,306.0
1967	17,149,186.0	16,529,099.0	1,845,847.0	2,785,543.0	11,897,709.0	620,087.0
1968	16,525,038.0	15,921,208.0	1,840,562.0	2,940,500.0	11,140,146.0	603,830.0
1969	16,309,900.0	15,640,888.0	1,944,773.0	2,700,117.0	10,995,998.0	669,012.0
1970	15,863,385.0	15,338,937.0	1,925,908.0	2,974,890.0	10,438,139.0	524,448.0
1971	16,153,756.0	15,542,512.0	1,980,141.0	3,143,030.0	10,419,341.0	611,244.0
1972	17,097,951.0	16,495,895.0	2,186,937.0	3,360,759.0	10,948,199.0	602,056.0
1973	17,574,486.0	16,800,153.0	2,232,006.0	3,349,423.0	11,218,724.0	774,333.0
1974	18,176,457.0	17,410,128.0	2,387,681.0	3,787,559.0	11,234,888.0	766,329.0
1975	19,859,548.0	19,038,818.0	2,588,427.0	4,141,281.0	12,309,110.0	820,730.0
1976	21,616,382.0	20,779,658.0	2,767,454.0	4,851,878.0	13,160,326.0	836,724.0
1977	24,817,577.0	23,450,377.0	3,258,640.0	5,255,475.0	14,936,262.0	1,367,200.0
1978	27,140,849.0	25,845,137.0	3,698,604.0	5,908,154.0	16,238,379.0	1,295,712.0
1979	29,620,597.0	28,145,142.0	4,192,665.0	6,342,340.0	17,610,137.0	1,475,455.0
1980	31,386,095.0	29,830,432.0	4,674,156.0	6,923,222.0	18,233,054.0	1,555,663.0
1981	34,589,634.0	33,103,924.0	5,041,295.0	7,171,485.0	20,891,144.0	1,485,710.0
1982	37,822,363.0	36,432,589.0	5,481,605.0	7,540,580.0	23,410,404.0	1,389,774.0
1983	40,009,032.0	38,711,537.0	6,260,131.0	7,993,394.0	24,458,012.0	1,297,495.0
1984	44,012,149.0	42,224,865.0	7,067,359.0	7,911,414.0	27,246,092.0	1,787,284.0
1985	50,180,369.0	48,359,565.0	7,818,682.0	8,314,739.0	32,226,144.0	1,820,804.0
1986	52,951,181.0	51,412,364.0	8,153,076.0	8,349,123.0	34,910,165.0	1,538,817.0
1987	57,099,656.0	55,253,693.0	8,942,425.0	8,998,096.0	37,313,172.0	1,845,963.0
1988	58,826,512.0	56,769,425.0	9,473,618.0	9,176,527.0	38,119,280.0	2,057,087.0
1989	63,571,605.0	61,406,484.0	10,602,011.0	10,163,520.0	40,640,953.0	2,165,121.0
1990	65,831,189.0	63,559,471.0	11,285,593.0	10,336,771.0	41,937,107.0	2,271,718.0
1991	64,147,951.0	61,295,152.0	12,170,794.0	11,797,583.0	37,326,775.0	2,852,799.0
1992	68,577,184.0	65,592,590.0	12,489,864.0	12,000,734.0	41,101,992.0	2,984,594.0
1993	70,414,697.0	67,314,025.0	13,399,121.0	13,491,376.0	40,423,528.0	3,100,672.0
1994	69,450,776.0	67,235,390.0	13,523,476.0	13,887,733.0	39,824,181.0	2,215,386.0
1995	70,442,935.0	68,186,798.0	13,877,031.0	14,557,365.0	39,752,402.0	2,256,137.0
1996	69,399,164.0	67,653,047.0	14,464,035.0	13,795,729.0	39,393,283.0	1,746,117.0
1997	71,753,430.0	69,826,779.0	14,941,892.0	14,423,397.0	40,461,490.0	1,926,651.0
1998	73,913,988.0	72,100,724.0	15,613,012.0	15,309,257.0	41,178,455.0	1,813,264.0
1999	77,386,368.0	75,340,622.0	17,443,653.0	16,083,861.0	41,813,108.0	2,045,746.0
2000	80,403,169.0	75,910,322.0	19,569,849.0	18,900,781.0	37,439,692.0	4,492,847.0
2001	88,562,348.0	84,492,520.0	21,958,136.0	22,755,600.0	39,778,784.0	4,069,828.0
2002	98,013,347.0	93,708,604.0	23,668,345.0	24,338,366.0	45,701,893.0	4,304,743.0
2003	107,793,778.0	103,527,260.0	24,751,441.0	26,320,402.0	52,455,417.0	4,266,518.0
2004	116,068,604.0	112,074,452.0	26,120,663.0	27,237,148.0	58,716,641.0	3,994,152.0

TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2013
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2005	122,618,991.0	118,847,864.0	27,140,335.0	26,597,910.0	65,109,619.0	3,771,127.0
2006	123,854,731.0	121,729,949.0	26,584,592.0	26,951,058.0	68,194,299.0	2,124,782.0
2007	129,431,246.0	127,262,861.0	26,865,786.0	27,227,779.0	73,169,296.0	2,168,385.0
2008	129,049,527.3	127,105,666.3	27,153,966.0	26,739,712.0	73,211,988.3	1,943,861.0
2009	144,758,067.3	141,090,055.2	32,879,356.9	30,812,515.0	77,398,183.4	3,668,012.0
2010	146,967,799.9	140,354,521.1	31,795,342.2	31,932,631.1	76,626,547.9	6,613,278.8
2011	139,661,527.1	135,490,831.7	29,313,593.3	28,710,112.8	77,467,125.6	4,170,695.4
2012 (preliminary)	139,158,851.8	134,785,706.9	29,426,161.6	28,623,598.1	76,735,947.2	4,373,145.0
2013 (preliminary)	141,176,308.9	136,471,591.7	30,065,703.6	29,903,452.0	76,502,436.0	4,704,717.2

NA = not available; data were not collected at this level of detail.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Institutes of Health reclassified all its development activities as research. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2010–13
(Dollars in millions)

Character of work, performer, and field	2010	2011	Preliminary 2012	% change 2011–12	2013	% change 2012–13
Outlays for research and development and R&D plant	137,523.1	135,743.9	134,263.0	-1.1	137,369.7	2.3
Research and development	131,387.6	131,443.0	129,896.2	-1.2	132,955.4	2.4
R&D plant	6,135.5	4,300.8	4,366.8	1.5	4,414.2	1.1
Obligations for research and development and R&D plant	146,967.8	139,661.5	139,158.9	-0.4	141,176.3	1.4
Research and development	140,354.5	135,490.8	134,785.7	-0.5	136,471.6	1.3
Performer						
Intramural[a]	30,911.8	35,144.7	37,664.9	7.2	37,301.0	-1.0
Industry	59,867.8	53,550.2	51,053.7	-4.7	52,286.3	2.4
Industry-administered FFRDCs	3,946.2	4,424.5	4,301.0	-2.8	4,936.7	14.8
Universities and colleges	31,192.3	27,680.3	27,410.8	-1.0	27,785.9	1.4
University-administered FFRDCs	3,370.5	3,437.8	3,487.2	1.4	3,395.9	-2.6
Other nonprofit institutions	7,245.3	6,636.6	6,303.0	-5.0	6,309.4	0.1
Nonprofit-administered FFRDCs	2,784.1	2,923.7	2,802.0	-4.2	2,828.7	1.0
State and local governments	426.7	716.2	1,115.9	55.8	1,038.2	-7.0
Foreign	609.9	976.8	647.2	-33.7	589.4	-8.9
Research	63,728.0	58,023.7	58,049.8	**	59,969.2	3.3
Performer						
Intramural[a]	13,280.9	12,663.4	13,049.3	3.0	13,533.0	3.7
Industry	6,625.5	6,037.4	5,839.0	-3.3	6,365.2	9.0
Industry-administered FFRDCs	2,960.1	2,984.4	2,917.6	-2.2	3,190.9	9.4
Universities and colleges	29,607.8	26,253.2	26,228.0	-0.1	26,612.7	1.5
University-administered FFRDCs	2,151.6	2,224.4	2,208.6	-0.7	2,266.2	2.6
Other nonprofit institutions	6,687.0	5,760.8	5,743.7	-0.3	5,767.4	0.4
Nonprofit-administered FFRDCs	1,633.6	1,447.7	1,394.4	-3.7	1,551.5	11.3
State and local governments	352.8	282.2	288.3	2.2	295.8	2.6
Foreign	428.6	370.2	380.9	2.9	386.4	1.4
Field of science and engineering						
Computer sciences and mathematics	3,411.8	3,374.3	3,450.6	2.3	3,751.0	8.7
Engineering	11,081.2	10,057.2	9,873.1	-1.8	10,742.6	8.8
Environmental sciences	3,338.9	3,207.2	3,079.0	-4.0	3,140.3	2.0
Life sciences	33,909.1	29,408.6	29,061.1	-1.2	29,151.5	0.3
Physical sciences	5,870.8	5,426.6	5,574.5	2.7	5,949.6	6.7
Psychology	2,155.6	1,886.8	1,914.2	1.5	1,923.4	0.5
Social sciences	1,197.3	1,262.4	1,202.9	-4.7	1,252.9	4.2
Other sciences nec	2,763.2	3,400.5	3,894.5	14.5	4,057.9	4.2
Basic research	31,795.3	29,313.6	29,426.2	0.4	30,065.7	2.2
Performer						
Intramural[a]	5,190.9	4,869.8	5,035.0	3.4	5,238.1	4.0
Industry	1,746.9	1,726.5	1,647.6	-4.6	1,753.6	6.4
Industry-administered FFRDCs	591.6	483.0	498.3	3.2	474.2	-4.8
Universities and colleges	17,403.1	15,771.4	15,775.1	**	16,038.3	1.7
University-administered FFRDCs	1,870.6	2,010.1	2,026.3	0.8	2,056.9	1.5
Other nonprofit institutions	3,530.4	3,066.5	3,064.1	-0.1	3,077.3	0.4
Nonprofit-administered FFRDCs	1,139.4	1,101.9	1,074.9	-2.5	1,133.2	5.4
State and local governments	103.2	75.8	82.8	9.2	77.3	-6.6
Foreign	219.2	208.7	222.2	6.5	216.8	-2.4
Field of science and engineering						
Computer sciences and mathematics	1,663.2	1,788.5	1,821.6	1.9	1,965.4	7.9
Engineering	3,491.1	3,168.0	3,255.0	2.7	3,422.5	5.1
Environmental sciences	1,787.4	1,796.4	1,797.4	0.1	1,912.1	6.4
Life sciences	17,748.3	15,373.4	15,157.8	-1.4	15,148.2	-0.1
Physical sciences	3,984.1	3,815.0	3,885.9	1.9	4,010.0	3.2

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2010–13
(Dollars in millions)

Character of work, performer, and field	2010	2011	Preliminary 2012	% change 2011–12	2013	% change 2012–13
Psychology	1,129.2	978.8	981.9	0.3	990.9	0.9
Social sciences	358.9	371.0	368.2	-0.7	376.2	2.2
Other sciences nec	1,633.0	2,022.6	2,158.5	6.7	2,240.4	3.8
Applied research	31,932.6	28,710.1	28,623.6	-0.3	29,903.5	4.5
Performer						
Intramural[a]	8,090.1	7,793.6	8,014.3	2.8	8,294.9	3.5
Industry	4,878.6	4,310.9	4,191.4	-2.8	4,611.6	10.0
Industry-administered FFRDCs	2,368.5	2,501.4	2,419.3	-3.3	2,716.7	12.3
Universities and colleges	12,204.7	10,481.8	10,452.9	-0.3	10,574.4	1.2
University-administered FFRDCs	281.0	214.3	182.3	-14.9	209.3	14.8
Other nonprofit institutions	3,156.6	2,694.3	2,679.6	-0.5	2,690.1	0.4
Nonprofit-administered FFRDCs	494.3	345.8	319.5	-7.6	418.4	30.9
State and local governments	249.6	206.4	205.6	-0.4	218.6	6.3
Foreign	209.4	161.5	158.7	-1.7	169.6	6.8
Field of science and engineering						
Computer sciences and mathematics	1,748.6	1,585.9	1,629.1	2.7	1,785.6	9.6
Engineering	7,590.0	6,889.2	6,618.1	-3.9	7,320.1	10.6
Environmental sciences	1,551.5	1,410.7	1,281.6	-9.2	1,228.2	-4.2
Life sciences	16,160.8	14,035.2	13,903.3	-0.9	14,003.3	0.7
Physical sciences	1,886.7	1,611.6	1,688.6	4.8	1,939.6	14.9
Psychology	1,026.4	908.1	932.3	2.7	932.5	**
Social sciences	838.4	891.4	834.7	-6.4	876.7	5.0
Other sciences nec	1,130.2	1,377.9	1,736.0	26.0	1,817.5	4.7
Development	76,626.5	77,467.1	76,735.9	-0.9	76,502.4	-0.3
Performer						
Intramural[a]	17,630.9	22,481.3	24,615.6	9.5	23,768.1	-3.4
Industry	53,242.3	47,512.8	45,214.8	-4.8	45,921.1	1.6
Industry-administered FFRDCs	986.1	1,440.1	1,383.4	-3.9	1,745.8	26.2
Universities and colleges	1,584.5	1,427.1	1,182.8	-17.1	1,173.2	-0.8
University-administered FFRDCs	1,218.9	1,213.3	1,278.6	5.4	1,129.7	-11.6
Other nonprofit institutions	558.3	875.8	559.3	-36.1	542.0	-3.1
Nonprofit-administered FFRDCs	1,150.4	1,476.0	1,407.7	-4.6	1,277.2	-9.3
State and local governments	73.9	434.0	827.6	90.7	742.4	-10.3
Foreign	181.3	606.6	266.3	-56.1	203.0	-23.8
R&D plant	6,613.3	4,170.7	4,373.1	4.9	4,704.7	7.6
Performer						
Intramural[a]	1,953.3	846.5	803.3	-5.1	920.6	14.6
Industry	1,751.2	2,030.0	2,242.8	10.5	2,425.6	8.2
Industry-administered FFRDCs	167.7	118.3	133.8	13.1	130.5	-2.5
Universities and colleges	1,532.6	286.0	318.7	11.4	304.6	-4.4
University-administered FFRDCs	491.4	242.9	249.6	2.8	317.7	27.3
Other nonprofit institutions	245.9	141.3	154.9	9.6	158.4	2.3
Nonprofit-administered FFRDCs	465.3	491.0	452.9	-7.8	429.6	-5.2
State and local governments	2.0	0.2	0.2	7.4	0.2	2.6
Foreign	4.0	14.6	16.9	15.8	17.6	4.1

** = percentage greater than -0.05% but less than 0.05%.

FFRDC = federally funded research and development center; nec = not elsewhere classified.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Percentages are computed using dollars in thousands. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2011–13
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2011	2012	2013	2011	2012	2013
All agencies	139,661.5	139,158.9	141,176.3	135,743.9	134,263.0	137,369.7
Departments						
Department of Agriculture	2,376.9	2,475.8	2,278.2	2,419.5	2,436.9	2,633.9
Agricultural Marketing Service	4.3	4.3	5.3	4.3	4.3	5.3
Agricultural Research Service	1,151.6	1,108.5	1,104.6	1,263.5	1,210.0	1,148.0
Animal and Plant Health Inspection Service	29.0	39.0	37.0	24.6	33.2	31.5
Economic Research Service	81.1	77.7	77.4	87.9	82.0	84.0
Foreign Agricultural Service	0.6	0.6	0.6	0.6	0.6	0.6
Forest Service	370.4	374.7	328.0	370.0	405.7	363.0
Grain Inspection, Packers, and Stockyards Administration	6.7	6.3	6.9	6.7	6.3	6.9
National Agricultural Statistics Service	7.4	7.4	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture	724.1	854.0	707.8	653.8	685.2	985.0
Rural Business-Cooperative Service	1.7	3.3	3.3	0.7	2.3	2.3
Department of Commerce	1,308.9	1,302.7	2,071.3	1,589.7	1,401.4	1,796.3
Economic Development Administration	15.5	32.2	0.0	15.5	32.2	0.0
National Institute of Standards and Technology	597.1	580.8	1,231.0	741.7	680.1	956.5
National Oceanic and Atmospheric Administration	629.0	580.6	650.6	765.7	580.6	650.6
National Telecommunications and Information Administration	7.8	7.5	6.7	7.2	7.0	6.2
U.S. Census Bureau	59.5	101.5	182.9	59.5	101.5	182.9
Department of Defense	75,327.6	74,629.8	73,848.6	72,659.3	70,558.5	72,567.1
Defense Advanced Research Projects Agency	2,846.4	2,884.3	2,817.0	2,889.3	2,834.2	2,822.8
Department of the Air Force	26,641.5	28,612.5	29,482.2	25,970.1	26,956.8	30,013.4
Department of the Army	9,831.8	9,049.3	8,712.1	8,125.0	9,776.2	9,118.9
Department of the Navy	17,813.9	18,386.2	16,868.6	15,361.7	15,975.1	14,703.8
Other defense agencies[a]	18,194.1	15,697.5	15,968.7	20,313.3	15,016.2	15,908.1
Department of Education	346.1	344.5	383.9	105.7	108.2	104.6
Department of Energy	10,680.4	10,333.8	11,409.3	10,456.2	10,243.3	10,955.6
Advanced Research Projects Agency—Energy	174.9	110.9	194.0	118.4	130.0	130.0
Bonneville Power Administration	13.2	15.3	16.2	13.2	15.3	16.2
Electricity Delivery and Energy Reliability	88.8	53.5	96.4	89.5	71.4	88.1
Energy Efficiency and Renewable Energy	902.5	986.1	1,392.0	888.5	909.8	1,168.5
Environmental Management	67.5	20.5	20.0	67.5	20.5	20.0
Fossil Energy	429.6	312.4	288.7	303.1	295.2	224.9
National Nuclear Security Administration	4,164.3	4,272.4	4,541.6	4,185.6	4,237.9	4,451.6
Defense Programs	2,866.5	2,885.1	3,136.7	2,887.8	2,850.6	3,046.8
Naval Reactors	974.3	1,071.0	1,088.6	974.3	1,071.0	1,088.6
Nonproliferation and Verification	323.5	316.2	316.2	323.5	316.3	316.2
Nuclear Energy	387.8	263.6	314.4	387.8	263.6	314.4
Office of Science	4,451.8	4,299.0	4,546.1	4,402.6	4,299.6	4,541.9
Department of Health and Human Services	30,928.0	31,058.3	30,997.5	30,458.6	30,611.5	30,741.2
Administration for Children and Families	9.6	9.8	10.0	9.3	9.5	9.7
Agency for Healthcare Research and Quality	370.7	369.1	334.4	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	5.1	4.8	4.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	385.9	341.1	263.5	296.5	271.7	257.8
Ctrs. for Medicare and Medicaid Services	35.4	21.2	24.6	45.2	31.5	35.5
Food and Drug Administration	233.7	226.2	269.3	214.9	207.8	246.9
Health Resources and Services Administration	37.4	37.9	38.0	37.4	37.9	133.6
National Institutes of Health	29,830.3	30,028.7	30,034.5	29,830.3	30,028.7	30,034.5
Office of the Secretary	19.9	19.6	18.5	19.9	19.6	18.5
Office of the Assistant Secretary, Planning and Evaluation	19.9	19.6	18.5	19.9	19.6	18.5

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2011–13
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2011	2012	2013	2011	2012	2013
Department of Homeland Security	1,127.5	1,006.2	1,408.7	1,165.7	1,207.8	1,090.3
Science and Technology Directorate	1,105.0	963.0	1,387.0	1,144.0	1,187.0	1,063.0
U.S. Coast Guard	22.5	43.2	21.7	21.7	20.8	27.3
Department of Housing and Urban Development	72.9	93.8	84.0	50.1	58.7	80.4
Department of the Interior	716.5	737.6	796.5	713.8	733.1	793.8
Bureau of Ocean Energy Management[b]	na	37.7	39.0	na	33.8	37.6
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	52.3	na	na	49.6	na	na
Bureau of Reclamation	15.1	12.0	12.0	15.1	12.0	12.0
Bureau of Safety and Environmental Enforcement[b]	na	12.4	19.0	na	11.7	17.6
National Park Service	9.2	0.0	0.0	9.2	0.0	0.0
U.S. Geological Survey	640.0	675.5	726.5	640.0	675.5	726.5
Department of Justice	102.3	66.4	20.4	102.3	66.4	20.4
Bureau of Prisons	11.6	11.2	11.4	11.6	11.2	11.4
Federal Bureau of Investigation	17.7	9.0	9.0	17.7	9.0	9.0
Office of Justice Programs	72.9	46.2	0.0	72.9	46.2	0.0
Department of Labor	55.6	15.6	15.8	11.8	14.1	14.3
Employee Benefits Security Administration	48.5	8.9	9.0	4.7	7.4	7.4
Occupational Safety and Health Administration	4.3	4.0	4.1	4.3	4.0	4.1
Pension Benefit Guaranty Corp.	2.8	2.7	2.7	2.8	2.7	2.7
Department of State	3.3	2.2	2.0	3.3	2.2	2.0
Department of Transportation	861.8	1,002.8	978.8	786.3	795.5	704.8
Federal Aviation Administration	347.2	399.1	360.2	228.0	252.0	259.0
Federal Highway Administration	344.1	382.0	388.9	320.1	294.2	278.9
Federal Motor Carrier Safety Administration	6.3	7.0	6.9	6.9	6.3	6.9
Federal Railroad Administration	47.1	95.5	45.3	41.7	95.5	50.7
Federal Transit Administration	23.8	6.8	34.2	42.0	44.0	51.7
National Highway Traffic Safety Administration	71.0	72.0	111.0	116.0	63.0	20.0
Office of the Secretary	9.3	15.6	10.0	17.9	21.7	16.6
Pipeline and Hazardous Materials Safety Administration	7.9	18.3	16.5	9.7	15.0	17.0
Research and Innovative Technology Administration	5.1	6.6	5.8	4.0	4.0	4.0
Department of the Treasury	77.6	75.1	78.4	77.6	75.1	78.4
Bureau of Engraving and Printing	5.8	4.8	9.5	5.8	4.8	9.5
Internal Revenue Service	70.8	68.9	68.9	70.8	68.9	68.9
U.S. Mint	1.0	1.3	0.0	1.0	1.3	0.0
Department of Veterans Affairs	612.9	607.8	592.7	558.9	571.8	573.2
Other agencies						
Agency for International Development	119.2	121.6	124.0	119.2	121.6	124.0
Appalachian Regional Commission	0.4	0.4	0.4	0.4	0.4	0.4
Environmental Protection Agency	581.7	567.5	575.6	581.7	567.5	575.6
Federal Communications Commission	3.7	3.9	4.8	3.7	3.9	4.8
Federal Trade Commission	2.7	1.9	1.9	2.7	1.9	1.9
Library of Congress	1.5	1.3	1.4	1.3	1.1	1.2
National Aeronautics and Space Administration	8,429.0	8,713.9	9,239.7	7,723.7	7,650.3	8,279.9
National Archives and Records Administration	3.1	2.0	2.0	3.1	2.0	2.0
National Science Foundation	5,536.6	5,614.3	5,872.0	5,748.0	6,628.0	5,820.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2011–13
(Dollars in millions)

	Obligations			Outlays		
		Preliminary			Preliminary	
Agency	2011	2012	2013	2011	2012	2013
Nuclear Regulatory Commission	83.8	68.8	80.8	99.0	81.0	87.0
Smithsonian Institution	248.7	232.9	233.5	249.2	242.8	242.4
Social Security Administration	53.0	78.2	74.0	53.0	78.2	74.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2011–13
(Dollars in millions)

Agency	Obligations 2011	Obligations Preliminary 2012	Obligations Preliminary 2013	Outlays 2011	Outlays Preliminary 2012	Outlays Preliminary 2013
All agencies	135,490.8	134,785.7	136,471.6	131,443.0	129,896.2	132,955.4
Departments						
Department of Agriculture	2,341.3	2,460.1	2,269.2	2,300.5	2,364.2	2,613.9
Agricultural Marketing Service	4.3	4.3	5.3	4.3	4.3	5.3
Agricultural Research Service	1,133.0	1,101.5	1,102.6	1,161.5	1,146.0	1,135.0
Animal and Plant Health Inspection Service	29.0	39.0	37.0	24.6	33.2	31.5
Economic Research Service	81.1	77.7	77.4	87.9	82.0	84.0
Foreign Agricultural Service	0.6	0.6	0.6	0.6	0.6	0.6
Forest Service	353.5	366.0	321.0	353.0	397.0	356.0
Grain Inspection, Packers, and Stockyards Administration	6.7	6.3	6.9	6.7	6.3	6.9
National Agricultural Statistics Service	7.4	7.4	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture	724.1	854.0	707.8	653.8	685.2	985.0
Rural Business-Cooperative Service	1.7	3.3	3.3	0.7	2.3	2.3
Department of Commerce	1,067.1	1,069.8	1,868.2	1,267.0	1,154.3	1,553.2
Economic Development Administration	0.6	5.2	0.0	0.6	5.2	0.0
National Institute of Standards and Technology	506.9	512.1	1,171.0	570.6	597.1	856.5
National Oceanic and Atmospheric Administration	492.3	443.5	507.6	629.0	443.5	507.6
National Telecommunications and Information Administration	7.8	7.5	6.7	7.2	7.0	6.2
U.S. Census Bureau	59.5	101.5	182.9	59.5	101.5	182.9
Department of Defense	75,157.3	74,504.3	73,724.6	72,527.4	70,420.3	72,428.1
Defense Advanced Research Projects Agency	2,846.4	2,884.3	2,817.0	2,889.3	2,834.2	2,822.8
Department of the Air Force	26,500.1	28,507.7	29,381.5	25,854.5	26,834.4	29,891.4
Department of the Army	9,831.8	9,049.3	8,712.1	8,125.0	9,776.2	9,118.9
Department of the Navy	17,792.4	18,365.4	16,846.3	15,345.4	15,959.3	14,686.9
Other defense agencies[a]	18,186.7	15,697.5	15,967.7	20,313.3	15,016.2	15,908.1
Department of Education	346.1	344.5	383.9	105.7	108.2	104.6
Department of Energy	9,945.8	9,591.6	10,683.0	9,685.0	9,510.9	10,229.4
Advanced Research Projects Agency—Energy	174.9	110.9	194.0	118.4	130.0	130.0
Bonneville Power Administration	13.2	15.3	16.2	13.2	15.3	16.2
Electricity Delivery and Energy Reliability	88.8	53.5	96.4	89.5	71.4	88.1
Energy Efficiency and Renewable Energy	863.2	986.1	1,392.0	852.6	909.8	1,168.5
Environmental Management	67.5	20.5	20.0	67.5	20.5	20.0
Fossil Energy	410.6	296.5	276.0	288.4	282.7	215.0
National Nuclear Security Administration	4,036.3	4,109.7	4,380.9	4,033.9	4,081.6	4,288.2
Defense Programs	2,771.0	2,762.3	3,025.6	2,768.7	2,734.2	2,933.0
Naval Reactors	941.7	1,031.1	1,039.0	941.7	1,031.1	1,039.0
Nonproliferation and Verification	323.5	316.2	316.2	323.5	316.3	316.2
Nuclear Energy	387.8	263.6	314.4	387.8	263.6	314.4
Office of Science	3,903.5	3,735.4	3,993.1	3,833.6	3,736.0	3,988.9
Department of Health and Human Services	30,848.8	30,915.9	30,853.0	30,379.4	30,469.0	30,596.8
Administration for Children and Families	9.6	9.8	10.0	9.3	9.5	9.7
Agency for Healthcare Research and Quality	370.7	369.1	334.4	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	5.1	4.8	4.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	385.9	341.1	263.5	296.5	271.7	257.8
Ctrs. for Medicare and Medicaid Services	35.4	21.2	24.6	45.2	31.5	35.5
Food and Drug Administration	225.2	217.7	258.7	206.4	199.2	236.3
Health Resources and Services Administration	36.8	37.2	37.3	36.8	37.2	132.9
National Institutes of Health	29,760.2	29,895.4	29,901.3	29,760.2	29,895.4	29,901.3
Office of the Secretary	19.9	19.6	18.5	19.9	19.6	18.5
Office of the Assistant Secretary, Planning and Evaluation	19.9	19.6	18.5	19.9	19.6	18.5

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2011–13
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2011	2012	2013	2011	2012	2013
Department of Homeland Security	559.1	510.7	695.5	471.4	487.4	445.0
Science and Technology Directorate	537.8	468.7	675.0	450.9	467.9	419.0
U.S. Coast Guard	21.3	42.0	20.5	20.5	19.6	26.0
Department of Housing and Urban Development	72.9	93.8	84.0	50.1	58.7	80.4
Department of the Interior	706.0	732.9	791.8	705.4	729.3	789.2
Bureau of Ocean Energy Management[b]	na	37.7	39.0	na	33.8	37.6
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	45.4	na	na	44.8	na	na
Bureau of Reclamation	11.5	10.0	10.0	11.5	10.0	10.0
Bureau of Safety and Environmental Enforcement[b]	na	9.7	16.4	na	10.0	15.1
National Park Service	9.2	0.0	0.0	9.2	0.0	0.0
U.S. Geological Survey	640.0	675.5	726.5	640.0	675.5	726.5
Department of Justice	102.3	66.4	20.4	102.3	66.4	20.4
Bureau of Prisons	11.6	11.2	11.4	11.6	11.2	11.4
Federal Bureau of Investigation	17.7	9.0	9.0	17.7	9.0	9.0
Office of Justice Programs	72.9	46.2	0.0	72.9	46.2	0.0
Department of Labor	55.6	15.6	15.8	10.5	13.3	13.4
Employee Benefits Security Administration	48.5	8.9	9.0	4.7	7.4	7.4
Occupational Safety and Health Administration	4.3	4.0	4.1	3.0	3.1	3.2
Pension Benefit Guaranty Corp.	2.8	2.7	2.7	2.8	2.7	2.7
Department of State	3.3	2.2	2.0	3.3	2.2	2.0
Department of Transportation	841.4	972.3	954.1	768.5	772.7	680.8
Federal Aviation Administration	329.6	371.5	338.6	211.0	232.0	238.0
Federal Highway Administration	344.1	382.0	388.9	320.1	294.2	278.9
Federal Motor Carrier Safety Administration	6.3	7.0	6.9	6.9	6.3	6.9
Federal Railroad Administration	44.4	92.6	42.3	40.9	92.6	47.7
Federal Transit Administration	23.8	6.8	34.2	42.0	44.0	51.7
National Highway Traffic Safety Administration	71.0	72.0	111.0	116.0	63.0	20.0
Office of the Secretary	9.3	15.6	10.0	17.9	21.7	16.6
Pipeline and Hazardous Materials Safety Administration	7.9	18.3	16.5	9.7	15.0	17.0
Research and Innovative Technology Administration	5.1	6.6	5.8	4.0	4.0	4.0
Department of the Treasury	77.6	75.1	78.4	77.6	75.1	78.4
Bureau of Engraving and Printing	5.8	4.8	9.5	5.8	4.8	9.5
Internal Revenue Service	70.8	68.9	68.9	70.8	68.9	68.9
U.S. Mint	1.0	1.3	0.0	1.0	1.3	0.0
Department of Veterans Affairs	612.9	607.8	592.7	558.9	571.8	573.2
Other agencies						
Agency for International Development	119.2	121.6	124.0	119.2	121.6	124.0
Appalachian Regional Commission	0.4	0.4	0.4	0.4	0.4	0.4
Environmental Protection Agency	577.0	562.8	570.9	577.0	562.8	570.9
Federal Communications Commission	3.7	3.9	4.8	3.7	3.9	4.8
Federal Trade Commission	2.7	1.9	1.9	2.7	1.9	1.9
Library of Congress	1.5	1.3	1.4	1.3	1.1	1.2
National Aeronautics and Space Administration	6,570.5	6,611.5	6,972.3	6,145.5	6,015.8	6,410.9
National Archives and Records Administration	3.1	2.0	2.0	3.1	2.0	2.0
National Science Foundation	5,145.6	5,177.0	5,423.4	5,233.0	6,031.0	5,273.0

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2011–13
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2011	2012	2013	2011	2012	2013
Nuclear Regulatory Commission	83.8	68.8	80.8	99.0	81.0	87.0
Smithsonian Institution	193.1	193.5	199.0	192.2	192.8	196.4
Social Security Administration	53.0	78.2	74.0	53.0	78.2	74.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	135,490,831.7	29,313,593.3	28,710,112.8	77,467,125.6	NA	NA
Departments						
Department of Agriculture	2,341,318.8	963,329.5	1,162,032.7	215,956.6	NA	NA
Agricultural Marketing Service	4,286.5	0.0	2,143.3	2,143.3	NA	NA
Agricultural Research Service	1,133,001.6	566,500.8	453,200.6	113,300.2	NA	NA
Animal and Plant Health Inspection Service	28,954.6	0.0	0.0	28,954.6	NA	NA
Economic Research Service	81,125.9	7,603.9	73,522.0	0.0	NA	NA
Foreign Agricultural Service	613.8	171.9	441.9	0.0	NA	NA
Forest Service	353,476.4	89,920.8	191,997.1	71,558.6	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	NA	NA
National Agricultural Statistics Service	7,403.0	3,316.6	4,086.4	0.0	NA	NA
National Institute of Food and Agriculture	724,082.0	289,125.0	434,957.0	0.0	NA	NA
Rural Business-Cooperative Service	1,684.4	0.0	1,684.4	0.0	NA	NA
Department of Commerce	1,067,138.6	165,543.6	775,428.7	126,166.2	NA	NA
Economic Development Administration	650.0	442.0	208.0	0.0	NA	NA
National Institute of Standards and Technology	506,945.2	165,101.7	307,857.9	33,985.6	NA	NA
National Oceanic and Atmospheric Administration	492,277.0	0.0	448,759.0	43,518.0	NA	NA
National Telecommunications and Information Administration	7,808.8	0.0	7,808.8	0.0	NA	NA
U.S. Census Bureau	59,457.7	0.0	10,795.0	48,662.7	NA	NA
Department of Defense	75,157,276.3	1,885,363.5	4,710,348.0	68,561,564.8	5,939,278.3	62,622,286.5
Defense Advanced Research Projects Agency	2,846,353.0	254,205.0	1,129,800.0	1,462,348.0	1,273,211.0	189,137.0
Department of the Air Force	26,500,057.6	470,732.1	1,203,199.1	24,826,126.4	585,974.2	24,240,152.1
Department of the Army	9,831,793.7	415,049.7	1,063,404.7	8,353,339.3	1,167,338.3	7,186,001.0
Department of the Navy	17,792,394.2	546,998.0	748,435.1	16,496,961.1	868,971.6	15,627,989.6
Other defense agencies[a]	18,186,677.7	198,378.6	565,509.0	17,422,790.0	2,043,783.2	15,379,006.8
Department of Education	346,101.2	7,483.0	205,544.3	133,073.8	NA	NA
Department of Energy	9,945,768.2	3,961,703.2	3,388,369.1	2,595,695.8	NA	NA
Advanced Research Projects Agency—Energy	174,878.8	0.0	127,788.2	47,090.6	NA	NA
Bonneville Power Administration	13,205.2	3,961.5	1,320.5	7,923.1	NA	NA
Electricity Delivery and Energy Reliability	88,770.2	6,446.4	55,331.6	26,992.2	NA	NA
Energy Efficiency and Renewable Energy	863,228.0	1,600.0	465,900.0	395,728.0	NA	NA
Environmental Management	67,469.0	0.0	22,265.0	45,204.0	NA	NA
Fossil Energy	410,588.0	4,106.0	180,659.0	225,823.0	NA	NA
National Nuclear Security Administration	4,036,263.5	42,071.1	2,208,292.5	1,785,900.0	NA	NA
Defense Programs	2,771,017.1	0.0	1,974,730.0	796,287.1	NA	NA
Naval Reactors	941,745.1	0.0	0.0	941,745.1	NA	NA
Nonproliferation and Verification	323,501.4	42,071.1	233,562.5	47,867.8	NA	NA
Nuclear Energy	387,847.3	0.0	326,812.3	61,035.0	NA	NA
Office of Science	3,903,518.2	3,903,518.2	0.0	0.0	NA	NA
Department of Health and Human Services	30,848,758.7	16,066,282.8	14,704,450.0	78,025.9	NA	NA
Administration for Children and Families	9,603.0	0.0	9,603.0	0.0	NA	NA
Agency for Healthcare Research and Quality	370,651.7	0.0	340,999.5	29,652.1	NA	NA
Agency for Toxic Substances and Disease Registry	5,099.7	0.0	5,099.7	0.0	NA	NA
Ctrs. for Disease Control and Prevention	385,888.1	64,813.4	282,773.2	38,301.4	NA	NA
Ctrs. for Medicare and Medicaid Services	35,424.0	0.0	35,424.0	0.0	NA	NA
Food and Drug Administration	225,202.2	0.0	225,202.2	0.0	NA	NA
Health Resources and Services Administration	36,781.1	2,563.4	24,145.4	10,072.3	NA	NA
National Institutes of Health	29,760,242.0	15,998,906.0	13,761,336.0	0.0	NA	NA
Office of the Secretary	19,866.8	0.0	19,866.8	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	0.0	19,866.8	0.0	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Homeland Security	559,085.0	113,763.6	134,340.1	310,981.3	NA	NA
Science and Technology Directorate	537,791.0	113,763.6	127,252.1	296,775.3	NA	NA
U.S. Coast Guard	21,294.0	0.0	7,088.0	14,206.0	NA	NA
Department of Housing and Urban Development	72,866.9	0.0	48,754.9	24,111.9	NA	NA
Department of the Interior	705,989.6	48,939.0	580,552.4	76,498.2	NA	NA
Bureau of Ocean Energy Management, Regulation and Enforcement	45,399.2	0.0	45,399.2	0.0	NA	NA
Bureau of Reclamation	11,465.0	0.0	8,599.0	2,866.0	NA	NA
National Park Service	9,160.3	0.0	8,301.1	859.2	NA	NA
U.S. Geological Survey	639,965.0	48,939.0	518,253.0	72,773.0	NA	NA
Department of Justice	102,303.0	17,524.1	66,942.8	17,836.2	NA	NA
Bureau of Prisons	11,625.0	0.0	3,463.0	8,162.0	NA	NA
Federal Bureau of Investigation	17,740.9	0.0	8,066.7	9,674.2	NA	NA
Office of Justice Programs	72,937.1	17,524.1	55,413.0	0.0	NA	NA
Department of Labor	55,639.0	0.0	53,006.8	2,632.2	NA	NA
Employee Benefits Security Administration	48,543.8	0.0	48,543.8	0.0	NA	NA
Occupational Safety and Health Administration	4,298.0	0.0	4,298.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,797.2	0.0	165.0	2,632.2	NA	NA
Department of State	3,258.2	0.0	3,258.2	0.0	NA	NA
Department of Transportation	841,441.0	4,357.9	632,634.9	204,448.2	NA	NA
Federal Aviation Administration	329,552.0	0.0	210,101.0	119,451.0	NA	NA
Federal Highway Administration	344,083.3	4,357.9	295,398.9	44,326.4	NA	NA
Federal Motor Carrier Safety Administration	6,336.3	0.0	5,707.4	628.8	NA	NA
Federal Railroad Administration	44,360.0	0.0	20,336.4	24,023.6	NA	NA
Federal Transit Administration	23,847.0	0.0	23,294.0	553.0	NA	NA
National Highway Traffic Safety Administration	71,000.0	0.0	71,000.0	0.0	NA	NA
Office of the Secretary	9,259.0	0.0	0.0	9,259.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	7,927.1	0.0	3,361.4	4,565.7	NA	NA
Research and Innovative Technology Administration	5,076.3	0.0	3,435.7	1,640.6	NA	NA
Department of the Treasury	77,573.2	237.9	76,739.5	595.9	NA	NA
Bureau of Engraving and Printing	5,770.5	237.9	4,936.8	595.9	NA	NA
Internal Revenue Service	70,815.4	0.0	70,815.4	0.0	NA	NA
U.S. Mint	987.3	0.0	987.3	0.0	NA	NA
Department of Veterans Affairs	612,901.0	250,557.9	324,862.3	37,480.8	NA	NA
Other agencies						
Agency for International Development	119,195.3	0.0	119,195.3	0.0	NA	NA
Appalachian Regional Commission	389.1	0.0	389.1	0.0	NA	NA
Environmental Protection Agency	576,990.0	87,997.4	403,392.6	85,600.0	NA	NA
Federal Communications Commission	3,660.6	0.0	3,660.6	0.0	NA	NA
Federal Trade Commission	2,728.8	0.0	2,728.8	0.0	NA	NA
Library of Congress	1,505.1	0.0	884.3	620.8	NA	NA
National Aeronautics and Space Administration	6,570,456.4	856,837.8	717,781.6	4,995,837.0	NA	NA
National Archives and Records Administration	3,052.5	0.0	3,052.5	0.0	NA	NA
National Science Foundation	5,145,590.0	4,690,620.0	454,970.0	0.0	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Nuclear Regulatory Commission	83,796.3	0.0	83,796.3	0.0	NA	NA
Smithsonian Institution	193,052.0	193,052.0	0.0	0.0	NA	NA
Social Security Administration	52,997.0	0.0	52,997.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	134,785,706.9	29,426,161.6	28,623,598.1	76,735,947.2	NA	NA
Departments						
Department of Agriculture	2,460,088.6	1,006,720.1	1,239,758.3	213,610.2	NA	NA
Agricultural Marketing Service	4,286.5	0.0	2,143.3	2,143.3	NA	NA
Agricultural Research Service	1,101,492.0	550,746.0	440,596.8	110,149.2	NA	NA
Animal and Plant Health Inspection Service	39,015.7	0.0	0.0	39,015.7	NA	NA
Economic Research Service	77,723.0	7,000.0	70,723.0	0.0	NA	NA
Foreign Agricultural Service	613.8	171.9	441.9	0.0	NA	NA
Forest Service	366,000.0	97,082.6	206,615.3	62,302.1	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,290.6	6,290.6	0.0	0.0	NA	NA
National Agricultural Statistics Service	7,400.0	3,300.0	4,100.0	0.0	NA	NA
National Institute of Food and Agriculture	854,017.0	342,129.0	511,888.0	0.0	NA	NA
Rural Business-Cooperative Service	3,250.0	0.0	3,250.0	0.0	NA	NA
Department of Commerce	1,069,831.0	176,664.8	804,858.8	88,307.4	NA	NA
Economic Development Administration	5,180.0	1,500.0	3,680.0	0.0	NA	NA
National Institute of Standards and Technology	512,126.3	175,164.8	321,076.9	15,884.6	NA	NA
National Oceanic and Atmospheric Administration	443,499.0	0.0	406,325.0	37,174.0	NA	NA
National Telecommunications and Information Administration	7,494.7	0.0	7,494.7	0.0	NA	NA
U.S. Census Bureau	101,531.0	0.0	66,282.2	35,248.8	NA	NA
Department of Defense	74,504,258.6	1,971,268.1	4,648,134.3	67,884,856.2	5,265,545.1	62,619,311.2
Defense Advanced Research Projects Agency	2,884,343.0	347,086.0	1,239,118.0	1,298,139.0	1,208,935.0	89,204.0
Department of the Air Force	28,507,705.3	506,394.7	1,294,353.4	26,706,957.3	630,367.4	26,076,589.9
Department of the Army	9,049,342.1	414,788.1	917,300.4	7,717,253.6	1,066,567.4	6,650,686.2
Department of the Navy	18,365,389.6	557,610.0	806,525.1	17,001,254.5	720,704.8	16,280,549.6
Other defense agencies[a]	15,697,478.7	145,389.4	390,837.5	15,161,251.9	1,638,970.4	13,522,281.4
Department of Education	344,505.0	6,762.4	203,628.6	134,114.0	NA	NA
Department of Energy	9,591,573.6	3,810,297.8	3,275,595.7	2,505,680.1	NA	NA
Advanced Research Projects Agency—Energy	110,934.4	0.0	60,978.0	49,956.4	NA	NA
Bonneville Power Administration	15,336.3	4,600.9	1,533.6	9,201.8	NA	NA
Electricity Delivery and Energy Reliability	53,540.9	10,084.5	27,558.9	15,897.4	NA	NA
Energy Efficiency and Renewable Energy	986,125.0	6,758.0	434,453.0	544,914.0	NA	NA
Environmental Management	20,470.0	0.0	6,755.0	13,715.0	NA	NA
Fossil Energy	296,485.0	2,965.0	130,453.0	163,067.0	NA	NA
National Nuclear Security Administration	4,109,681.6	50,461.4	2,371,562.0	1,687,658.2	NA	NA
Defense Programs	2,762,346.8	0.0	2,143,383.7	618,963.2	NA	NA
Naval Reactors	1,031,100.0	0.0	0.0	1,031,100.0	NA	NA
Nonproliferation and Verification	316,234.8	50,461.4	228,178.4	37,595.0	NA	NA
Nuclear Energy	263,572.4	0.0	242,302.1	21,270.3	NA	NA
Office of Science	3,735,427.9	3,735,427.9	0.0	0.0	NA	NA
Department of Health and Human Services	30,915,925.1	16,095,213.2	14,749,306.9	71,405.0	NA	NA
Administration for Children and Families	9,804.6	0.0	9,804.6	0.0	NA	NA
Agency for Healthcare Research and Quality	369,053.0	0.0	339,528.8	29,524.2	NA	NA
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	4,831.4	0.0	NA	NA
Ctrs. for Disease Control and Prevention	341,094.4	58,410.2	251,339.2	31,345.0	NA	NA
Ctrs. for Medicare and Medicaid Services	21,160.0	0.0	21,160.0	0.0	NA	NA
Food and Drug Administration	217,703.5	0.0	217,703.5	0.0	NA	NA
Health Resources and Services Administration	37,246.2	2,565.0	24,145.4	10,535.8	NA	NA
National Institutes of Health	29,895,432.0	16,034,238.0	13,861,194.0	0.0	NA	NA
Office of the Secretary	19,600.0	0.0	19,600.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	19,600.0	0.0	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Homeland Security	510,680.2	99,144.2	124,199.3	287,336.6	NA	NA
Science and Technology Directorate	468,681.2	99,144.2	110,899.3	258,637.6	NA	NA
U.S. Coast Guard	41,999.0	0.0	13,300.0	28,699.0	NA	NA
Department of Housing and Urban Development	93,750.8	0.0	64,611.4	29,139.4	NA	NA
Department of the Interior	732,913.7	55,504.0	562,239.7	115,170.0	NA	NA
Bureau of Ocean Energy Management[b]	37,729.3	0.0	37,729.3	0.0	NA	NA
Bureau of Reclamation	9,987.0	0.0	7,490.0	2,497.0	NA	NA
Bureau of Safety and Environmental Enforcement[b]	9,726.4	0.0	7,347.4	2,379.0	NA	NA
U.S. Geological Survey	675,471.0	55,504.0	509,673.0	110,294.0	NA	NA
Department of Justice	66,407.6	5,812.7	50,983.5	9,611.4	NA	NA
Bureau of Prisons	11,205.0	0.0	3,288.0	7,917.0	NA	NA
Federal Bureau of Investigation	8,975.9	812.7	6,468.8	1,694.4	NA	NA
Office of Justice Programs	46,226.7	5,000.0	41,226.7	0.0	NA	NA
Department of Labor	15,560.7	0.0	13,014.3	2,546.4	NA	NA
Employee Benefits Security Administration	8,899.3	0.0	8,899.3	0.0	NA	NA
Occupational Safety and Health Administration	3,950.0	0.0	3,950.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,711.4	0.0	165.0	2,546.4	NA	NA
Department of State	2,182.5	0.0	2,182.5	0.0	NA	NA
Department of Transportation	972,345.3	4,729.0	670,316.7	297,299.7	NA	NA
Federal Aviation Administration	371,533.0	0.0	230,771.0	140,762.0	NA	NA
Federal Highway Administration	381,982.2	4,729.0	325,992.4	51,260.8	NA	NA
Federal Motor Carrier Safety Administration	6,962.5	0.0	6,551.1	411.3	NA	NA
Federal Railroad Administration	92,604.0	0.0	18,925.0	73,679.0	NA	NA
Federal Transit Administration	6,812.0	0.0	6,108.0	704.0	NA	NA
National Highway Traffic Safety Administration	72,000.0	0.0	72,000.0	0.0	NA	NA
Office of the Secretary	15,603.0	0.0	0.0	15,603.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	18,270.5	0.0	5,630.2	12,640.3	NA	NA
Research and Innovative Technology Administration	6,578.2	0.0	4,339.0	2,239.2	NA	NA
Department of the Treasury	75,054.3	93.7	74,671.4	289.2	NA	NA
Bureau of Engraving and Printing	4,820.9	93.7	4,438.0	289.2	NA	NA
Internal Revenue Service	68,908.7	0.0	68,908.7	0.0	NA	NA
U.S. Mint	1,324.7	0.0	1,324.7	0.0	NA	NA
Department of Veterans Affairs	607,819.0	248,480.3	322,168.6	37,170.1	NA	NA
Other agencies						
Agency for International Development	121,579.2	0.0	121,579.2	0.0	NA	NA
Appalachian Regional Commission	390.0	0.0	390.0	0.0	NA	NA
Environmental Protection Agency	562,779.0	84,879.0	394,200.0	83,700.0	NA	NA
Federal Communications Commission	3,883.4	0.0	3,883.4	0.0	NA	NA
Federal Trade Commission	1,907.2	0.0	1,907.2	0.0	NA	NA
Library of Congress	1,297.7	0.0	586.3	711.4	NA	NA
National Aeronautics and Space Administration	6,611,504.8	940,456.3	696,048.5	4,975,000.0	NA	NA
National Archives and Records Administration	1,988.5	0.0	1,988.5	0.0	NA	NA
National Science Foundation	5,176,990.0	4,726,610.0	450,380.0	0.0	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2012

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Nuclear Regulatory Commission	68,804.9	0.0	68,804.9	0.0	NA	NA
Smithsonian Institution	193,526.0	193,526.0	0.0	0.0	NA	NA
Social Security Administration	78,160.0	0.0	78,160.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2013
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	136,471,591.7	30,065,703.6	29,903,452.0	76,502,436.0	NA	NA
Departments						
Department of Agriculture	2,269,182.1	935,754.2	1,128,859.0	204,568.9	NA	NA
Agricultural Marketing Service	5,286.5	0.0	2,643.3	2,643.3	NA	NA
Agricultural Research Service	1,102,565.0	551,282.5	441,026.0	110,256.5	NA	NA
Animal and Plant Health Inspection Service	37,027.2	0.0	0.0	37,027.2	NA	NA
Economic Research Service	77,397.0	7,000.0	70,397.0	0.0	NA	NA
Foreign Agricultural Service	613.8	171.9	441.9	0.0	NA	NA
Forest Service	321,000.0	85,146.2	181,211.8	54,642.0	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,890.6	6,890.6	0.0	0.0	NA	NA
National Agricultural Statistics Service	7,400.0	3,300.0	4,100.0	0.0	NA	NA
National Institute of Food and Agriculture	707,752.0	281,963.0	425,789.0	0.0	NA	NA
Rural Business-Cooperative Service	3,250.0	0.0	3,250.0	0.0	NA	NA
Department of Commerce	1,868,212.2	202,026.8	1,238,503.5	427,681.9	NA	NA
National Institute of Standards and Technology	1,171,022.2	202,026.8	650,866.6	318,128.8	NA	NA
National Oceanic and Atmospheric Administration	507,592.0	0.0	451,523.0	56,069.0	NA	NA
National Telecommunications and Information Administration	6,682.2	0.0	6,682.2	0.0	NA	NA
U.S. Census Bureau	182,915.7	0.0	129,431.6	53,484.1	NA	NA
Department of Defense	73,724,571.5	2,091,788.1	4,676,977.0	66,955,806.4	5,282,211.6	61,673,594.8
Defense Advanced Research Projects Agency	2,817,035.0	346,718.0	1,179,066.0	1,291,251.0	1,219,571.0	71,680.0
Department of the Air Force	29,381,501.5	518,417.7	1,334,347.7	27,528,736.1	646,407.5	26,882,328.6
Department of the Army	8,712,061.2	446,611.8	867,639.6	7,397,809.7	909,794.3	6,488,015.4
Department of the Navy	16,846,294.1	604,371.0	790,966.2	15,450,956.9	590,635.9	14,860,321.0
Other defense agencies[a]	15,967,679.8	175,669.6	504,957.6	15,287,052.7	1,915,802.9	13,371,249.8
Department of Education	383,913.4	8,322.7	223,395.4	152,195.3	NA	NA
Department of Energy	10,682,968.7	4,074,136.0	3,914,772.9	2,694,059.8	NA	NA
Advanced Research Projects Agency—Energy	194,000.0	0.0	141,620.0	52,380.0	NA	NA
Bonneville Power Administration	16,173.4	9,704.0	4,852.0	1,617.3	NA	NA
Electricity Delivery and Energy Reliability	96,400.0	18,157.1	49,619.7	28,623.2	NA	NA
Energy Efficiency and Renewable Energy	1,391,972.0	0.0	739,014.0	652,958.0	NA	NA
Environmental Management	20,000.0	0.0	6,600.0	13,400.0	NA	NA
Fossil Energy	276,040.6	2,760.4	121,457.8	151,822.3	NA	NA
National Nuclear Security Administration	4,380,899.8	50,461.4	2,545,691.4	1,784,747.0	NA	NA
Defense Programs	3,025,620.0	0.0	2,317,513.0	708,107.0	NA	NA
Naval Reactors	1,039,045.0	0.0	0.0	1,039,045.0	NA	NA
Nonproliferation and Verification	316,234.8	50,461.4	228,178.4	37,595.0	NA	NA
Nuclear Energy	314,430.0	0.0	305,918.0	8,512.0	NA	NA
Office of Science	3,993,053.0	3,993,053.0	0.0	0.0	NA	NA
Department of Health and Human Services	30,853,046.4	16,017,958.5	14,766,783.9	68,303.9	NA	NA
Administration for Children and Families	10,010.5	0.0	10,010.5	0.0	NA	NA
Agency for Healthcare Research and Quality	334,357.0	0.0	307,608.4	26,748.6	NA	NA
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	4,831.4	0.0	NA	NA
Ctrs. for Disease Control and Prevention	263,532.2	39,194.5	193,404.8	30,932.9	NA	NA
Ctrs. for Medicare and Medicaid Services	24,567.0	0.0	24,567.0	0.0	NA	NA
Food and Drug Administration	258,662.3	0.0	258,662.3	0.0	NA	NA
Health Resources and Services Administration	37,333.0	2,565.0	24,145.4	10,622.5	NA	NA
National Institutes of Health	29,901,253.0	15,976,199.0	13,925,054.0	0.0	NA	NA
Office of the Secretary	18,500.0	0.0	18,500.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	18,500.0	0.0	18,500.0	0.0	NA	NA
Department of Homeland Security	695,515.2	142,796.5	166,570.3	386,148.4	NA	NA
Science and Technology Directorate	675,037.2	142,796.5	159,727.3	372,513.4	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2013
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
U.S. Coast Guard	20,478.0	0.0	6,843.0	13,635.0	NA	NA
Department of Housing and Urban Development	84,025.8	0.0	57,050.7	26,975.1	NA	NA
Department of the Interior	791,847.9	61,152.0	609,742.0	120,953.9	NA	NA
Bureau of Ocean Energy Management[b]	38,966.2	0.0	38,966.2	0.0	NA	NA
Bureau of Reclamation	9,987.0	0.0	7,490.0	2,497.0	NA	NA
Bureau of Safety and Environmental Enforcement[b]	16,374.7	0.0	13,073.8	3,300.9	NA	NA
U.S. Geological Survey	726,520.0	61,152.0	550,212.0	115,156.0	NA	NA
Department of Justice	20,375.9	812.7	9,842.8	9,720.4	NA	NA
Bureau of Prisons	11,400.0	0.0	3,374.0	8,026.0	NA	NA
Federal Bureau of Investigation	8,975.9	812.7	6,468.8	1,694.4	NA	NA
Department of Labor	15,812.5	0.0	13,260.5	2,552.0	NA	NA
Employee Benefits Security Administration	8,950.5	0.0	8,950.5	0.0	NA	NA
Occupational Safety and Health Administration	4,145.0	0.0	4,145.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,717.0	0.0	165.0	2,552.0	NA	NA
Department of State	2,020.0	0.0	2,020.0	0.0	NA	NA
Department of Transportation	954,094.9	4,800.0	721,531.1	227,763.8	NA	NA
Federal Aviation Administration	338,565.0	0.0	223,050.0	115,515.0	NA	NA
Federal Highway Administration	388,892.8	4,800.0	333,092.2	51,000.6	NA	NA
Federal Motor Carrier Safety Administration	6,907.6	0.0	6,494.5	413.1	NA	NA
Federal Railroad Administration	42,281.6	0.0	10,570.4	31,711.2	NA	NA
Federal Transit Administration	34,236.0	0.0	30,741.0	3,495.0	NA	NA
National Highway Traffic Safety Administration	111,000.0	0.0	111,000.0	0.0	NA	NA
Office of the Secretary	10,000.0	0.0	0.0	10,000.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	16,457.0	0.0	2,595.0	13,862.0	NA	NA
Research and Innovative Technology Administration	5,755.0	0.0	3,988.0	1,767.0	NA	NA
Department of the Treasury	78,433.2	194.9	77,751.0	487.3	NA	NA
Bureau of Engraving and Printing	9,524.5	194.9	8,842.4	487.3	NA	NA
Internal Revenue Service	68,908.7	0.0	68,908.7	0.0	NA	NA
Department of Veterans Affairs	592,674.0	242,289.0	314,141.1	36,243.9	NA	NA
Other agencies						
Agency for International Development	124,010.8	0.0	124,010.8	0.0	NA	NA
Appalachian Regional Commission	390.0	0.0	390.0	0.0	NA	NA
Environmental Protection Agency	570,944.0	86,414.2	401,329.8	83,200.0	NA	NA
Federal Communications Commission	4,760.3	0.0	4,760.3	0.0	NA	NA
Federal Trade Commission	1,942.0	0.0	1,942.0	0.0	NA	NA
Library of Congress	1,396.5	0.0	621.5	775.0	NA	NA
National Aeronautics and Space Administration	6,972,330.0	1,032,970.0	834,360.0	5,105,000.0	NA	NA
National Archives and Records Administration	1,988.5	0.0	1,988.5	0.0	NA	NA
National Science Foundation	5,423,350.0	4,965,310.0	458,040.0	0.0	NA	NA
Nuclear Regulatory Commission	80,848.9	0.0	80,848.9	0.0	NA	NA
Smithsonian Institution	198,978.0	198,978.0	0.0	0.0	NA	NA
Social Security Administration	73,959.0	0.0	73,959.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	135,490.8	35,144.7	53,550.2	4,424.5	27,680.3	3,437.8	6,636.6	2,923.7	716.2	976.8
Departments										
Department of Agriculture	2,341.3	1,517.1	21.4	0.0	764.0	0.0	25.6	0.0	11.3	2.0
Agricultural Marketing Service	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,133.0	1,043.2	0.0	0.0	76.2	0.0	11.7	0.0	0.2	1.6
Animal and Plant Health Inspection Service	29.0	22.5	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0
Economic Research Service	81.1	71.6	3.4	0.0	4.7	0.0	1.3	0.0	0.0	0.1
Foreign Agricultural Service	0.6	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Forest Service	353.5	306.6	1.3	0.0	32.8	0.0	4.2	0.0	8.2	0.3
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7.4	6.2	0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.0
National Institute of Food and Agriculture	724.1	54.7	16.8	0.0	642.2	0.0	7.6	0.0	2.8	0.0
Rural Business-Cooperative Service	1.7	1.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0
Department of Commerce	1,067.1	815.8	71.9	0.0	165.7	1.4	7.0	0.0	4.4	0.9
Economic Development Administration	0.6	*	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0
National Institute of Standards and Technology	506.9	389.9	71.3	0.0	42.6	0.0	2.5	0.0	0.1	0.6
National Oceanic and Atmospheric Administration	492.3	358.6	0.6	0.0	122.9	1.4	4.1	0.0	4.4	0.4
National Telecommunications and Information Administration	7.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	59.5	59.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	75,157.3	23,074.3	45,039.7	625.3	2,704.9	567.4	838.9	1,241.9	399.9	665.0
Defense Advanced Research Projects Agency	2,846.4	221.5	1,941.6	16.7	532.2	36.1	71.1	6.6	0.0	20.6
Department of the Air Force	26,500.1	3,837.8	20,854.2	128.1	404.1	249.4	19.7	945.6	25.6	35.4
Department of the Army	9,831.8	4,217.2	4,853.3	12.8	486.1	32.4	172.0	45.0	0.0	13.1
Department of the Navy	17,792.4	5,524.4	10,874.2	329.6	763.0	45.6	128.8	104.1	0.9	21.8
Other defense agencies[b]	18,186.7	9,273.3	6,516.4	138.0	519.5	203.9	447.4	140.7	373.3	574.1
Department of Education	346.1	16.9	16.9	0.0	238.8	0.0	73.4	0.0	0.0	0.0
Department of Energy	9,945.8	696.7	1,612.6	3,184.8	1,009.0	1,753.1	163.3	1,508.2	14.6	3.5
Advanced Research Projects Agency—Energy	174.9	18.0	60.4	2.4	75.7	5.5	5.5	7.3	0.0	0.0
Bonneville Power Administration	13.2	2.2	8.3	0.0	0.6	0.0	2.0	0.0	0.1	0.0
Electricity Delivery and Energy Reliability	88.8	6.7	11.3	17.0	6.1	5.3	18.2	24.2	0.0	0.0
Energy Efficiency and Renewable Energy	863.2	337.3	0.0	61.2	88.7	79.8	24.5	271.8	0.0	0.0
Environmental Management	67.5	*	20.3	20.8	2.5	2.8	4.5	16.6	0.0	0.0
Fossil Energy	410.6	127.4	97.1	26.6	50.8	16.4	58.2	19.5	14.5	*
National Nuclear Security Administration	4,036.3	147.3	1,166.3	2,594.4	67.0	9.0	3.4	48.9	0.0	0.0
Defense Programs	2,771.0	99.4	271.7	2,333.9	63.2	2.1	0.7	0.0	0.0	0.0
Naval Reactors	941.7	42.1	846.9	52.6	0.0	*	0.0	0.1	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nonproliferation and Verification	323.5	5.8	47.7	207.8	3.8	6.9	2.8	48.8	0.0	0.0
Nuclear Energy	387.8	6.0	15.7	264.6	0.3	31.1	0.0	70.0	0.0	0.0
Office of Science	3,903.5	51.8	233.1	197.8	717.3	1,603.2	46.8	1,049.9	0.0	3.5
Department of Health and Human Services	30,848.8	5,692.6	1,768.5	463.1	17,726.5	44.2	4,758.3	23.0	119.0	253.5
Administration for Children and Families	9.6	0.3	0.0	0.0	9.0	0.0	0.4	0.0	0.0	*
Agency for Healthcare Research and Quality	370.7	85.3	113.2	0.0	109.9	0.0	61.2	0.0	0.4	0.7
Agency for Toxic Substances and Disease Registry	5.1	2.3	0.0	0.0	1.6	0.0	1.2	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	385.9	134.0	33.5	0.0	147.2	1.2	26.6	0.0	30.8	12.6
Ctrs. for Medicare and Medicaid Services	35.4	*	29.6	0.0	0.9	0.0	2.8	0.1	2.0	0.0
Food and Drug Administration	225.2	211.4	5.2	0.0	5.4	0.0	2.7	0.0	0.1	0.4
Health Resources and Services Administration	36.8	3.6	0.0	0.0	18.2	0.0	14.4	0.0	0.6	0.0
National Institutes of Health	29,760.2	5,252.8	1,579.4	463.1	17,430.9	43.0	4,643.0	22.9	85.1	239.9
Office of the Secretary	19.9	3.0	7.5	0.0	3.4	0.0	6.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	3.0	7.5	0.0	3.4	0.0	6.0	0.0	0.0	0.0
Department of Homeland Security	559.1	187.8	143.2	62.3	80.2	17.9	13.3	51.8	0.0	2.6
Science and Technology Directorate	537.8	186.1	123.9	62.3	79.9	17.9	13.3	51.8	0.0	2.6
U.S. Coast Guard	21.3	1.7	19.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	72.9	42.5	20.9	0.0	1.6	0.0	7.5	0.0	0.4	0.0
Department of the Interior	706.0	552.4	20.1	0.0	107.2	0.5	11.3	0.0	11.7	2.7
Bureau of Ocean Energy Management, Regulation and Enforcement	45.4	12.8	16.2	0.0	11.6	0.5	1.7	0.0	0.0	2.7
Bureau of Reclamation	11.5	7.2	2.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0
National Park Service	9.2	0.7	0.2	0.0	7.9	0.0	0.3	0.0	0.0	0.0
U.S. Geological Survey	640.0	531.8	1.6	0.0	85.5	0.0	9.3	0.0	11.7	0.0
Department of Justice	102.3	26.5	14.9	1.0	29.5	0.4	15.3	0.3	14.4	0.0
Bureau of Prisons	11.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
Federal Bureau of Investigation	17.7	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	72.9	5.5	14.9	1.0	29.5	0.4	15.3	0.3	6.0	0.0
Department of Labor	55.6	5.0	50.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	48.5	1.3	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4.3	3.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.8	0.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	841.4	225.4	268.8	63.6	64.8	*	44.1	55.9	118.4	0.4
Federal Aviation Administration	329.6	124.9	132.2	0.0	20.9	*	6.8	44.7	0.0	0.0
Federal Highway Administration	344.1	47.2	66.6	63.6	15.3	0.0	32.1	11.2	108.1	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Motor Carrier Safety Administration	6.3	0.4	1.3	0.0	3.5	0.0	0.8	0.0	0.0	0.3
Federal Railroad Administration	44.4	10.3	21.7	0.0	10.4	0.0	2.0	0.0	0.0	0.0
Federal Transit Administration	23.8	1.5	6.0	0.0	6.1	0.0	0.0	0.0	10.3	0.0
National Highway Traffic Safety Administration	71.0	25.2	37.5	0.0	8.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	9.3	7.6	1.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	7.9	3.4	2.0	0.0	*	0.0	2.4	0.0	0.0	0.1
Research and Innovative Technology Administration	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77.6	73.9	3.5	0.0	*	0.0	0.0	0.1	0.0	0.0
Bureau of Engraving and Printing	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70.8	68.1	2.6	0.0	*	0.0	0.0	0.1	0.0	0.0
U.S. Mint	1.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	612.9	612.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	119.2	4.7	15.1	0.0	22.4	0.0	69.8	0.0	0.0	7.2
Appalachian Regional Commission	0.4	*	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Environmental Protection Agency	577.0	255.1	241.9	0.0	79.2	0.0	0.0	0.0	0.0	0.8
Federal Communications Commission	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,570.5	1,036.8	3,901.1	0.6	573.3	842.4	198.7	12.6	0.5	4.4
National Archives and Records Administration	3.1	1.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,145.6	84.0	295.1	0.0	4,101.2	202.6	402.9	8.1	21.4	30.4
Nuclear Regulatory Commission	83.8	8.0	11.2	23.8	6.1	7.9	1.6	21.8	0.0	3.4
Smithsonian Institution	193.1	193.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	53.0	10.3	32.6	0.0	4.7	0.0	5.2	0.0	0.2	*

* = amount greater than $0 but less than $50,000.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Agency	Total R&D	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	134,785.7	37,664.9	51,053.7	4,301.0	27,410.8	3,487.2	6,303.0	2,802.0	1,115.9	647.2
Departments										
Department of Agriculture	2,460.1	1,519.7	23.1	0.0	880.4	0.0	24.1	0.0	11.2	1.5
Agricultural Marketing Service	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,101.5	1,031.0	0.0	0.0	60.3	0.0	8.8	0.0	0.2	1.2
Animal and Plant Health Inspection Service	39.0	30.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Economic Research Service	77.7	69.0	4.5	0.0	3.2	0.0	1.0	0.0	0.0	0.0
Foreign Agricultural Service	0.6	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Forest Service	366.0	319.2	1.3	0.0	32.8	0.0	4.2	0.0	8.2	0.3
Grain Inspection, Packers, and Stockyards Administration	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7.4	6.8	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
National Institute of Food and Agriculture	854.0	51.4	17.4	0.0	774.8	0.0	7.6	0.0	2.8	0.0
Rural Business-Cooperative Service	3.3	1.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0
Department of Commerce	1,069.8	866.0	32.1	0.0	152.3	1.4	7.9	1.5	8.3	0.4
Economic Development Administration	5.2	0.2	0.0	0.0	3.5	0.0	0.0	1.5	0.0	0.0
National Institute of Standards and Technology	512.1	426.5	31.4	0.0	43.6	0.0	7.5	0.0	3.2	0.1
National Oceanic and Atmospheric Administration	443.5	330.3	0.8	0.0	105.2	1.4	0.4	0.0	5.1	0.4
National Telecommunications and Information Administration	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	101.5	101.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	74,504.3	25,239.3	42,746.9	742.5	2,385.7	618.3	473.1	1,159.9	801.2	337.3
Defense Advanced Research Projects Agency	2,884.3	225.1	1,869.0	18.1	625.9	37.4	76.8	7.0	0.0	25.0
Department of the Air Force	28,507.7	5,211.0	21,326.0	228.3	368.9	324.9	17.3	881.3	97.8	52.2
Department of the Army	9,049.3	4,160.0	4,429.3	15.1	312.5	44.3	33.7	46.8	3.4	4.2
Department of the Navy	18,365.4	6,016.3	10,869.3	396.6	770.9	45.1	133.2	111.5	0.9	21.7
Other defense agencies[b]	15,697.5	9,626.8	4,253.2	84.5	307.6	166.6	212.2	113.3	699.1	234.1
Department of Education	344.5	17.8	18.1	0.0	234.7	0.0	73.9	0.0	0.0	0.0
Department of Energy	9,591.6	1,045.1	1,426.6	2,947.4	844.2	1,710.2	122.1	1,483.7	10.6	1.7
Advanced Research Projects Agency—Energy	110.9	22.0	59.8	1.7	17.2	2.8	4.9	2.6	0.0	0.0
Bonneville Power Administration	15.3	2.6	10.2	0.0	1.0	0.0	1.4	0.0	0.1	0.0
Electricity Delivery and Energy Reliability	53.5	3.3	5.8	11.5	4.6	5.9	1.6	20.9	0.0	0.0
Energy Efficiency and Renewable Energy	986.1	385.3	0.0	64.6	101.3	91.1	28.0	315.7	0.0	0.0
Environmental Management	20.5	*	10.6	3.8	0.0	1.4	0.0	4.8	0.0	0.0
Fossil Energy	296.5	92.0	70.2	19.2	36.7	11.9	42.0	14.1	10.5	*
National Nuclear Security Administration	4,109.7	333.3	1,157.0	2,496.1	66.2	8.0	2.0	47.1	0.0	0.0
Defense Programs	2,762.3	277.3	188.3	2,233.6	62.1	1.0	*	0.0	0.0	0.0
Naval Reactors	1,031.1	46.0	920.6	64.4	0.0	*	0.0	0.1	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nonproliferation and Verification	316.2	9.9	48.2	198.0	4.1	7.0	2.0	47.0	0.0	0.0
Nuclear Energy	263.6	1.4	10.1	145.4	7.2	23.9	0.0	75.6	0.0	0.0
Office of Science	3,735.4	205.3	102.9	205.2	610.0	1,565.2	42.2	1,003.0	0.0	1.7
Department of Health and Human Services	30,915.9	5,602.1	1,761.7	472.2	17,855.9	47.2	4,789.7	23.1	108.4	255.6
Administration for Children and Families	9.8	0.3	0.0	0.0	9.2	0.0	0.4	0.0	0.0	*
Agency for Healthcare Research and Quality	369.1	84.9	112.7	0.0	109.4	0.0	61.0	0.0	0.4	0.7
Agency for Toxic Substances and Disease Registry	4.8	3.1	0.0	0.0	1.0	0.0	0.7	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	341.1	134.5	31.4	0.0	122.3	3.8	14.8	0.0	21.7	12.5
Ctrs. for Medicare and Medicaid Services	21.2	*	18.9	0.0	0.5	0.0	1.7	0.0	*	0.0
Food and Drug Administration	217.7	204.3	5.0	0.0	5.2	0.0	2.6	0.0	0.1	0.4
Health Resources and Services Administration	37.2	3.6	0.0	0.0	16.8	0.0	16.6	0.0	0.3	0.0
National Institutes of Health	29,895.4	5,166.4	1,593.7	467.3	17,588.5	43.4	4,685.0	23.1	85.9	242.1
Office of the Secretary	19.6	4.9	0.0	4.9	2.9	0.0	6.9	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.6	4.9	0.0	4.9	2.9	0.0	6.9	0.0	0.0	0.0
Department of Homeland Security	510.7	180.6	131.5	54.3	69.6	15.6	11.6	45.1	0.0	2.3
Science and Technology Directorate	468.7	162.1	108.0	54.3	69.6	15.6	11.6	45.1	0.0	2.3
U.S. Coast Guard	42.0	18.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	93.8	42.0	21.6	0.0	0.6	0.0	29.4	0.0	0.2	0.0
Department of the Interior	732.9	583.1	18.4	1.7	101.8	0.0	13.3	0.0	14.2	0.5
Bureau of Ocean Energy Management[c]	37.7	16.9	8.7	0.0	11.1	0.0	0.2	0.0	0.8	0.2
Bureau of Reclamation	10.0	3.2	2.5	0.0	0.8	0.0	3.4	0.0	0.1	0.0
Bureau of Safety and Environmental Enforcement[c]	9.7	1.2	6.1	1.0	1.0	0.0	0.1	0.0	0.0	0.3
U.S. Geological Survey	675.5	561.8	1.0	0.7	88.9	0.0	9.7	0.0	13.3	0.0
Department of Justice	66.4	14.9	8.6	0.8	18.4	0.4	9.7	0.4	13.4	0.0
Bureau of Prisons	11.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0
Federal Bureau of Investigation	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	46.2	2.9	8.6	0.8	18.4	0.4	9.7	0.4	5.2	0.0
Department of Labor	15.6	5.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	8.9	1.5	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4.0	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.7	0.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	972.3	296.2	298.3	60.8	70.3	*	65.3	54.6	126.4	0.5
Federal Aviation Administration	371.5	138.4	149.4	0.0	23.3	*	7.7	52.6	0.0	0.0
Federal Highway Administration	382.0	62.6	69.5	60.8	19.4	0.0	43.7	2.0	123.9	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2012

(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Motor Carrier Safety Administration	7.0	0.2	1.1	0.0	4.8	0.0	0.7	0.0	0.0	0.1
Federal Railroad Administration	92.6	44.5	29.6	0.0	12.1	0.0	6.0	0.0	0.0	0.4
Federal Transit Administration	6.8	1.8	0.5	0.0	2.1	0.0	0.0	0.0	2.4	0.0
National Highway Traffic Safety Administration	72.0	25.5	38.2	0.0	8.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	15.6	13.7	1.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	18.3	2.9	8.3	0.0	*	0.0	7.0	0.0	0.0	0.0
Research and Innovative Technology Administration	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75.1	71.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68.9	66.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1.3	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	607.8	607.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	121.6	4.8	15.4	0.0	22.9	0.0	71.2	0.0	0.0	7.3
Appalachian Regional Commission	0.4	*	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	562.8	248.7	236.1	0.0	77.2	0.0	0.0	0.0	0.0	0.8
Federal Communications Commission	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,611.5	1,001.7	3,947.8	0.6	562.4	884.0	197.2	12.9	0.5	4.4
National Archives and Records Administration	2.0	1.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,177.0	84.6	295.6	0.0	4,127.3	204.1	405.3	8.1	21.4	30.6
Nuclear Regulatory Commission	68.8	8.4	12.6	20.6	3.0	6.0	1.2	12.7	0.0	4.4
Smithsonian Institution	193.5	193.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	78.2	21.1	45.7	0.0	3.3	0.0	7.9	0.0	0.2	0.0

* = amount greater than $0 but less than $50,000.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2013
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	136,471.6	37,301.0	52,286.3	4,936.7	27,785.9	3,395.9	6,309.4	2,828.7	1,038.2	589.4
Departments										
Department of Agriculture	2,269.2	1,471.2	23.6	0.0	737.5	0.0	24.1	0.0	11.2	1.5
Agricultural Marketing Service	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,102.6	1,027.2	0.0	0.0	65.2	0.0	8.8	0.0	0.2	1.2
Animal and Plant Health Inspection Service	37.0	29.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0
Economic Research Service	77.4	68.9	4.5	0.0	3.0	0.0	1.0	0.0	0.0	0.0
Foreign Agricultural Service	0.6	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Forest Service	321.0	274.2	1.3	0.0	32.8	0.0	4.2	0.0	8.2	0.3
Grain Inspection, Packers, and Stockyards Administration	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7.4	6.8	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
National Institute of Food and Agriculture	707.8	51.8	17.9	0.0	627.7	0.0	7.6	0.0	2.8	0.0
Rural Business-Cooperative Service	3.3	1.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0
Department of Commerce	1,868.2	1,063.5	487.7	0.0	286.4	1.4	11.8	0.0	16.5	0.9
National Institute of Standards and Technology	1,171.0	489.1	487.1	0.0	170.6	0.0	11.4	0.0	12.3	0.6
National Oceanic and Atmospheric Administration	507.6	384.8	0.6	0.0	115.8	1.4	0.3	0.0	4.3	0.3
National Telecommunications and Information Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	182.9	182.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	73,724.6	24,367.1	43,102.0	1,036.4	2,374.9	436.7	462.4	971.8	694.5	278.8
Defense Advanced Research Projects Agency	2,817.0	219.4	1,826.5	17.8	611.1	36.7	74.1	6.8	0.0	24.6
Department of the Air Force	29,381.5	4,457.7	23,416.2	192.8	412.7	133.0	12.1	703.6	24.5	28.8
Department of the Army	8,712.1	4,473.3	3,847.8	10.4	284.8	23.1	29.8	40.3	0.0	2.7
Department of the Navy	16,846.3	5,670.7	9,435.1	712.6	750.6	42.4	116.3	96.3	0.9	21.2
Other defense agencies[b]	15,967.7	9,546.2	4,576.4	102.8	315.6	201.5	230.0	124.8	669.1	201.5
Department of Education	383.9	17.7	15.1	0.0	265.8	0.0	85.3	0.0	0.0	0.0
Department of Energy	10,683.0	1,310.1	1,589.4	3,261.3	949.4	1,749.3	125.3	1,687.3	9.9	0.9
Advanced Research Projects Agency—Energy	194.0	25.0	82.6	2.8	63.9	5.7	7.1	6.9	0.0	0.0
Bonneville Power Administration	16.2	2.6	11.1	0.0	1.0	0.0	1.4	0.0	0.1	0.0
Electricity Delivery and Energy Reliability	96.4	5.9	10.4	20.7	8.3	10.6	2.9	37.6	0.0	0.0
Energy Efficiency and Renewable Energy	1,392.0	543.9	0.0	97.5	143.0	128.6	39.6	439.4	0.0	0.0
Environmental Management	20.0	*	1.5	9.7	0.0	1.5	0.0	7.4	0.0	0.0
Fossil Energy	276.0	85.6	65.3	17.9	34.2	11.0	39.1	13.1	9.8	*
National Nuclear Security Administration	4,380.9	277.9	1,158.6	2,824.0	64.4	7.0	2.0	47.1	0.0	0.0
Defense Programs	3,025.6	217.9	187.7	2,559.8	60.3	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,039.0	50.1	922.7	66.2	0.0	*	0.0	0.1	0.0	0.0
Nonproliferation and Verification	316.2	9.9	48.2	198.0	4.1	7.0	2.0	47.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Agency	Total R&D	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nuclear Energy	314.4	1.5	83.6	112.2	18.6	24.2	0.0	74.4	0.0	0.0
Office of Science	3,993.1	367.6	176.3	176.6	616.3	1,560.6	33.3	1,061.5	0.0	0.9
Department of Health and Human Services	30,853.0	5,582.0	1,757.5	467.4	17,830.0	47.2	4,785.1	23.1	105.6	255.1
Administration for Children and Families	10.0	0.3	0.0	0.0	9.4	0.0	0.4	0.0	0.0	*
Agency for Healthcare Research and Quality	334.4	76.9	102.1	0.0	99.1	0.0	55.2	0.0	0.4	0.6
Agency for Toxic Substances and Disease Registry	4.8	3.1	0.0	0.0	1.0	0.0	0.7	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	263.5	83.0	28.0	0.0	103.3	3.8	14.3	0.0	19.3	11.9
Ctrs. for Medicare and Medicaid Services	24.6	*	23.0	0.0	0.7	0.0	0.8	0.0	0.0	0.0
Food and Drug Administration	258.7	242.8	5.9	0.0	6.2	0.0	3.1	0.0	0.1	0.5
Health Resources and Services Administration	37.3	3.6	0.0	0.0	15.3	0.0	18.4	0.0	0.0	0.0
National Institutes of Health	29,901.3	5,167.5	1,594.0	467.4	17,591.9	43.4	4,685.9	23.1	85.9	242.1
Office of the Secretary	18.5	4.7	4.5	0.0	3.0	0.0	6.3	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18.5	4.7	4.5	0.0	3.0	0.0	6.3	0.0	0.0	0.0
Department of Homeland Security	695.5	238.6	170.9	78.3	100.3	22.4	16.7	65.0	0.0	3.3
Science and Technology Directorate	675.0	233.5	155.5	78.3	100.3	22.4	16.7	65.0	0.0	3.3
U.S. Coast Guard	20.5	5.1	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	84.0	46.8	27.4	0.0	0.7	0.0	9.2	0.0	0.0	0.0
Department of the Interior	791.8	623.3	20.3	2.7	112.8	0.0	14.0	0.0	18.4	0.3
Bureau of Ocean Energy Management[c]	39.0	16.4	6.4	0.0	12.6	0.0	0.2	0.0	3.4	0.0
Bureau of Reclamation	10.0	3.2	2.5	0.0	0.8	0.0	3.4	0.0	0.1	0.0
Bureau of Safety and Environmental Enforcement[c]	16.4	1.0	10.3	2.0	2.8	0.0	0.0	0.0	0.0	0.3
U.S. Geological Survey	726.5	602.8	1.1	0.7	96.6	0.0	10.4	0.0	14.9	0.0
Department of Justice	20.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0
Bureau of Prisons	11.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0
Federal Bureau of Investigation	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	15.8	5.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	9.0	1.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4.1	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.7	0.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	954.1	267.0	277.2	69.0	85.4	*	58.9	45.7	150.8	0.0
Federal Aviation Administration	338.6	129.7	136.5	0.0	22.1	*	7.1	43.1	0.0	0.0
Federal Highway Administration	388.9	67.3	49.7	69.0	27.3	0.0	41.2	2.6	131.8	0.0
Federal Motor Carrier Safety Administration	6.9	0.2	1.6	0.0	4.4	0.0	0.7	0.0	0.0	0.0
Federal Railroad Administration	42.3	12.0	22.6	0.0	6.3	0.0	1.4	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2013

(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Transit Administration	34.2	2.0	1.1	0.0	12.1	0.0	0.0	0.0	19.0	0.0
National Highway Traffic Safety Administration	111.0	39.4	58.6	0.0	13.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	10.0	8.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	16.5	2.5	5.2	0.0	0.2	0.0	8.6	0.0	0.0	0.0
Research and Innovative Technology Administration	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	78.4	76.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68.9	66.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	592.7	592.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	124.0	4.9	15.7	0.0	23.3	0.0	72.6	0.0	0.0	7.5
Appalachian Regional Commission	0.4	*	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	570.9	253.2	238.3	0.0	78.6	0.0	0.0	0.0	0.0	0.8
Federal Communications Commission	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,972.3	1,033.3	4,189.5	0.7	606.8	920.1	203.8	13.1	0.5	4.5
National Archives and Records Administration	2.0	1.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,423.4	88.8	307.2	0.0	4,325.6	214.4	424.3	8.5	22.5	32.0
Nuclear Regulatory Commission	80.8	13.1	18.8	21.0	3.9	4.3	1.9	14.2	0.0	3.7
Smithsonian Institution	199.0	199.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	74.0	23.5	33.0	0.0	3.5	0.0	13.9	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2011
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	10,785,946.6	4,424,524.0	3,437,761.7	2,923,660.9	852,281.5	118,328.5	242,932.6	491,020.4
Departments								
Department of Commerce	1,396.8	0.0	1,396.8	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,396.8	0.0	1,396.8	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,434,587.8	625,264.2	567,407.2	1,241,916.5	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	59,374.6	16,705.9	36,112.7	6,556.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,323,130.2	128,142.5	249,395.0	945,592.7	0.0	0.0	0.0	0.0
Department of the Army	90,116.4	12,767.7	32,387.5	44,961.1	0.0	0.0	0.0	0.0
Department of the Navy	479,318.7	329,635.1	45,580.2	104,103.4	0.0	0.0	0.0	0.0
Other defense agencies[a]	482,648.0	138,013.0	203,931.8	140,703.2	0.0	0.0	0.0	0.0
Department of Energy	6,446,125.8	3,184,821.1	1,753,113.2	1,508,191.5	677,375.1	102,005.8	232,202.8	343,166.6
Advanced Research Projects Agency—Energy	15,283.8	2,411.0	5,526.9	7,345.8	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	46,421.4	16,994.1	5,257.5	24,169.8	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	412,711.2	61,169.0	79,765.6	271,776.6	39,295.0	0.0	0.0	39,295.0
Environmental Management	40,146.6	20,784.5	2,776.0	16,586.1	0.0	0.0	0.0	0.0
Fossil Energy	62,545.5	26,640.1	16,434.1	19,471.3	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,652,232.5	2,594,390.1	8,966.2	48,876.3	92,417.1	92,417.1	0.0	0.0
Defense Programs	2,336,021.7	2,333,930.7	2,091.0	0.0	92,417.1	92,417.1	0.0	0.0
Naval Reactors	52,745.9	52,631.4	19.5	95.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	263,465.0	207,828.1	6,855.7	48,781.3	0.0	0.0	0.0	0.0
Nuclear Energy	365,795.9	264,602.1	31,144.4	70,049.5	0.0	0.0	0.0	0.0
Office of Science	2,850,989.0	197,830.2	1,603,242.5	1,049,916.2	545,663.0	9,588.7	232,202.8	303,871.6
Department of Health and Human Services	530,320.2	463,142.8	44,184.4	22,993.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	1,215.3	0.0	1,215.3	0.0	0.0	0.0	0.0	0.0
Ctrs. for Medicare and Medicaid Services	69.5	0.0	0.0	69.5	0.0	0.0	0.0	0.0
National Institutes of Health	529,035.4	463,142.8	42,969.1	22,923.6	0.0	0.0	0.0	0.0
Department of Homeland Security	131,969.6	62,342.3	17,854.9	51,772.5	163,559.0	16,322.8	2,475.0	144,761.2
Science and Technology Directorate	131,969.6	62,342.3	17,854.9	51,772.5	163,559.0	16,322.8	2,475.0	144,761.2
Department of the Interior	482.4	0.0	482.4	0.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	482.4	0.0	482.4	0.0	0.0	0.0	0.0	0.0
Department of Justice	1,605.7	975.0	355.0	275.7	0.0	0.0	0.0	0.0
Office of Justice Programs	1,605.7	975.0	355.0	275.7	0.0	0.0	0.0	0.0
Department of Transportation	119,528.9	63,584.7	11.5	55,932.8	0.0	0.0	0.0	0.0
Federal Aviation Administration	44,758.8	0.0	11.5	44,747.3	0.0	0.0	0.0	0.0
Federal Highway Administration	74,770.1	63,584.7	0.0	11,185.5	0.0	0.0	0.0	0.0

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2011
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Department of the Treasury	149.8	0.0	0.0	149.8	0.0	0.0	0.0	0.0
Internal Revenue Service	149.8	0.0	0.0	149.8	0.0	0.0	0.0	0.0
Other agencies								
National Aeronautics and Space Administration	855,678.9	634.2	842,446.4	12,598.3	4,226.7	0.0	1,134.1	3,092.6
National Science Foundation	210,640.8	0.0	202,586.7	8,054.1	7,120.8	0.0	7,120.8	0.0
Nuclear Regulatory Commission	53,460.0	23,759.8	7,923.4	21,776.8	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	10,590,182.8	4,300,964.5	3,487,209.5	2,802,008.8	836,436.0	133,843.4	249,649.7	452,942.9
Departments								
Department of Commerce	2,876.6	0.0	1,396.8	1,479.9	0.0	0.0	0.0	0.0
Economic Development Administration	1,479.9	0.0	0.0	1,479.9	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,396.8	0.0	1,396.8	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,520,706.0	742,519.5	618,303.9	1,159,882.6	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	62,524.5	18,129.3	37,382.6	7,012.6	0.0	0.0	0.0	0.0
Department of the Air Force	1,434,526.1	228,268.2	324,926.4	881,331.5	0.0	0.0	0.0	0.0
Department of the Army	106,165.4	15,107.8	44,303.1	46,754.5	0.0	0.0	0.0	0.0
Department of the Navy	553,100.6	396,557.3	45,053.5	111,489.8	0.0	0.0	0.0	0.0
Other defense agencies[a]	364,389.3	84,456.8	166,638.4	113,294.1	0.0	0.0	0.0	0.0
Department of Energy	6,141,349.4	2,947,448.8	1,710,227.6	1,483,673.0	680,971.8	119,618.3	238,197.7	323,155.9
Advanced Research Projects Agency—Energy	7,052.5	1,650.0	2,777.5	2,625.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	38,258.0	11,480.0	5,885.0	20,893.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	471,467.4	64,603.4	91,120.9	315,743.1	0.0	0.0	0.0	0.0
Environmental Management	9,885.7	3,764.0	1,371.0	4,750.7	0.0	0.0	0.0	0.0
Fossil Energy	45,164.0	19,236.7	11,867.1	14,060.2	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,551,203.3	2,496,102.4	8,032.3	47,068.5	119,618.3	119,618.3	0.0	0.0
Defense Programs	2,234,640.0	2,233,640.0	1,000.0	0.0	119,618.3	119,618.3	0.0	0.0
Naval Reactors	64,536.1	64,428.6	11.5	96.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	252,027.2	198,033.9	7,020.8	46,972.5	0.0	0.0	0.0	0.0
Nuclear Energy	244,947.6	145,427.9	23,940.7	75,579.0	0.0	0.0	0.0	0.0
Office of Science	2,773,371.0	205,184.3	1,565,233.2	1,002,953.5	561,353.5	0.0	238,197.7	323,155.9
Department of Health and Human Services	542,562.2	472,229.5	47,201.9	23,130.8	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	3,844.4	0.0	3,844.4	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	533,817.8	467,329.5	43,357.5	23,130.8	0.0	0.0	0.0	0.0
Office of the Secretary	4,900.0	4,900.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	4,900.0	4,900.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	115,010.6	54,330.9	15,560.4	45,119.3	142,540.5	14,225.2	2,156.9	126,158.4
Science and Technology Directorate	115,010.6	54,330.9	15,560.4	45,119.3	142,540.5	14,225.2	2,156.9	126,158.4
Department of the Interior	1,659.9	1,659.9	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement[b]	996.1	996.1	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	663.8	663.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	1,535.8	767.9	383.9	383.9	0.0	0.0	0.0	0.0
Office of Justice Programs	1,535.8	767.9	383.9	383.9	0.0	0.0	0.0	0.0

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Department of Transportation	115,440.7	60,814.4	12.7	54,613.5	0.0	0.0	0.0	0.0
Federal Aviation Administration	52,651.2	0.0	12.7	52,638.4	0.0	0.0	0.0	0.0
Federal Highway Administration	62,789.5	60,814.4	0.0	1,975.1	0.0	0.0	0.0	0.0
Other agencies								
National Aeronautics and Space Administration	897,507.4	635.6	883,963.0	12,908.8	4,959.2	0.0	1,330.7	3,628.5
National Science Foundation	212,250.5	0.0	204,137.5	8,113.0	7,964.5	0.0	7,964.5	0.0
Nuclear Regulatory Commission	39,283.7	20,558.0	6,021.8	12,703.9	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2013
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	11,161,354.0	4,936,730.6	3,395,882.9	2,828,740.5	877,821.2	130,482.0	317,733.2	429,606.1
Departments								
Department of Commerce	1,396.8	0.0	1,396.8	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,396.8	0.0	1,396.8	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,444,845.0	1,036,398.0	436,650.4	971,796.6	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	61,297.4	17,810.9	36,694.0	6,792.5	0.0	0.0	0.0	0.0
Department of the Air Force	1,029,428.9	192,832.5	132,977.0	703,619.5	0.0	0.0	0.0	0.0
Department of the Army	73,736.9	10,366.1	23,092.3	40,278.6	0.0	0.0	0.0	0.0
Department of the Navy	851,383.0	712,620.6	42,417.4	96,345.1	0.0	0.0	0.0	0.0
Other defense agencies[a]	428,998.7	102,767.9	201,469.7	124,761.0	0.0	0.0	0.0	0.0
Department of Energy	6,697,937.1	3,261,291.7	1,749,345.2	1,687,300.2	659,158.2	109,993.6	305,062.8	244,101.8
Advanced Research Projects Agency—Energy	15,356.5	2,792.0	5,709.4	6,855.1	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	68,883.2	20,669.6	10,595.9	37,617.7	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	665,504.9	97,512.8	128,623.6	439,368.5	0.0	0.0	0.0	0.0
Environmental Management	18,509.0	9,650.5	1,500.0	7,358.5	0.0	0.0	0.0	0.0
Fossil Energy	42,049.7	17,910.3	11,048.7	13,090.7	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,878,073.7	2,823,962.5	7,040.8	47,070.5	107,860.2	107,860.2	0.0	0.0
Defense Programs	2,559,765.0	2,559,765.0	0.0	0.0	107,860.2	107,860.2	0.0	0.0
Naval Reactors	66,281.5	66,163.6	20.0	97.9	0.0	0.0	0.0	0.0
Nonproliferation and Verification	252,027.2	198,033.9	7,020.8	46,972.5	0.0	0.0	0.0	0.0
Nuclear Energy	210,794.0	112,175.0	24,192.0	74,427.0	0.0	0.0	0.0	0.0
Office of Science	2,798,766.0	176,618.9	1,560,634.8	1,061,512.3	551,298.0	2,133.4	305,062.8	244,101.8
Department of Health and Human Services	537,766.1	467,420.5	47,210.3	23,135.3	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	3,844.4	0.0	3,844.4	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	533,921.8	467,420.5	43,366.0	23,135.3	0.0	0.0	0.0	0.0
Department of Homeland Security	165,648.7	78,252.2	22,411.5	64,985.0	205,299.8	20,488.4	3,106.6	181,704.8
Science and Technology Directorate	165,648.7	78,252.2	22,411.5	64,985.0	205,299.8	20,488.4	3,106.6	181,704.8
Department of the Interior	2,735.2	2,735.2	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement[b]	2,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	735.2	735.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	114,721.1	68,995.4	12.3	45,713.4	0.0	0.0	0.0	0.0
Federal Aviation Administration	43,097.7	0.0	12.3	43,085.4	0.0	0.0	0.0	0.0
Federal Highway Administration	71,623.4	68,995.4	0.0	2,628.0	0.0	0.0	0.0	0.0

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2013
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Other agencies								
National Aeronautics and Space Administration	933,799.2	657.0	920,084.3	13,057.9	5,192.8	0.0	1,393.3	3,799.5
National Science Foundation	222,957.4	0.0	214,440.1	8,517.3	8,170.4	0.0	8,170.4	0.0
Nuclear Regulatory Commission	39,547.5	20,980.7	4,332.0	14,234.7	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2011

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other[a]
All FFRDCs	10,785,946.6	131,969.6	1,396.8	2,434,587.8	6,446,125.8	530,320.2	855,678.9	210,640.8	175,226.7
Administered by industrial firms	4,424,524.0	62,342.3	0.0	625,264.2	3,184,821.1	463,142.8	634.2	0.0	88,319.5
Idaho National Lab.	287,927.7	793.7	0.0	2,792.4	275,371.8	0.0	0.0	0.0	8,969.7
Lawrence Livermore National Lab.	1,317,439.4	32,549.3	0.0	357,974.9	920,636.7	6,095.2	183.3	0.0	0.0
Los Alamos National Lab.	1,100,282.0	14,039.6	0.0	30,967.1	1,046,274.0	8,550.5	450.9	0.0	0.0
National Cancer Institute at Frederick	451,668.0	0.0	0.0	4,325.5	0.0	447,342.5	0.0	0.0	0.0
Sandia National Labs.	1,230,765.8	14,959.7	0.0	228,766.8	907,510.0	1,154.7	0.0	0.0	78,374.7
Savannah River National Lab.	36,441.1	0.0	0.0	437.4	35,028.7	0.0	0.0	0.0	975.0
Administered by universities and colleges[b]	3,437,761.7	17,854.9	1,396.8	567,407.2	1,753,113.2	44,184.4	842,446.4	202,586.7	8,772.2
Ames Lab.	28,781.5	0.0	0.0	3,070.2	25,345.2	0.0	11.1	0.0	355.0
Argonne National Lab.	460,230.2	1,467.7	0.0	1,211.1	442,905.4	7,158.1	0.0	0.0	7,487.9
Fermi National Accelerator Lab.	341,235.8	0.0	0.0	0.0	341,213.8	0.0	22.0	0.0	0.0
Jet Propulsion Lab.	863,281.8	898.6	0.0	33,013.1	0.0	0.0	829,370.1	0.0	0.0
Lawrence Berkeley National Lab.	579,253.0	1,627.4	0.0	9,913.6	526,449.4	35,811.0	4,333.7	200.0	917.9
Lincoln Lab.	421,562.9	13,861.2	0.0	407,690.3	0.0	0.0	0.0	0.0	11.5
National Astronomy and Ionosphere Center	8,967.1	0.0	0.0	0.0	0.0	0.0	0.0	8,967.1	0.0
National Ctr. for Atmospheric Research	131,831.5	0.0	1,396.8	29,918.4	0.0	835.0	8,702.8	90,978.5	0.0
National Optical Astronomy Observatories	77,937.8	0.0	0.0	43,142.6	0.0	0.0	0.0	34,795.2	0.0
National Radio Astronomy Observatory	67,645.8	0.0	0.0	0.0	0.0	0.0	0.0	67,645.8	0.0
Princeton Plasma Physics Lab.	60,700.0	0.0	0.0	0.0	60,700.0	0.0	0.0	0.0	0.0
SLAC National Accelerator Lab.	264,191.9	0.0	0.0	0.0	264,185.1	0.0	6.8	0.0	0.0
Software Engineering Institute	36,154.7	0.0	0.0	35,774.4	0.0	380.3	0.0	0.0	0.0
Thomas Jefferson National Accelerator Facility	95,987.7	0.0	0.0	3,673.5	92,314.2	0.0	0.0	0.0	0.0
Administered by nonprofit institutions[c]	2,923,660.9	51,772.5	0.0	1,241,916.5	1,508,191.5	22,993.0	12,598.3	8,054.1	78,135.0
Aerospace FFRDC	530,892.0	0.0	0.0	525,072.7	0.0	0.0	5,554.3	265.0	0.0
Arroyo Ctr.	20,062.1	0.0	0.0	20,062.1	0.0	0.0	0.0	0.0	0.0
Brookhaven National Lab.	374,786.6	0.0	0.0	309.1	355,233.3	7,571.4	6,208.6	0.0	5,464.1
Ctr. for Advanced Aviation System Development	59,867.9	0.0	0.0	15,120.6	0.0	0.0	0.0	0.0	44,747.3
Ctr. for Communications and Computing	745.2	0.0	0.0	745.2	0.0	0.0	0.0	0.0	0.0
Ctr. for Enterprise Modernization	3,985.0	0.0	0.0	3,985.0	0.0	0.0	0.0	0.0	0.0
Ctr. for Naval Analyses	54,230.2	0.0	0.0	54,230.2	0.0	0.0	0.0	0.0	0.0
Ctr. for Nuclear Waste Regulatory Analyses	1,985.5	254.4	0.0	0.0	0.0	223.1	94.5	0.0	1,413.5
Homeland Security Studies and Analysis Institute	5,264.2	4,726.8	0.0	537.5	0.0	0.0	0.0	0.0	0.0
Homeland Security Systems Engineering and Development Institute	5,304.1	5,304.1				0.0	0.0	0.0	
National Biodefense Analysis and Countermeasures Ctr.	9,656.9	9,656.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Defense Research Institute	17,335.7	0.0	0.0	17,335.7	0.0	0.0	0.0	0.0	0.0
National Renewable Energy Lab.	173,136.6	1,093.3	0.0	90.0	171,953.4	0.0	0.0	0.0	0.0
National Security Engineering Ctr.[d]	511,295.7	0.0	0.0	511,146.0	0.0	0.0	0.0	0.0	149.8

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2011

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other[a]
Oak Ridge National Lab.	786,730.6	8,876.3	0.0	5,919.8	749,201.7	951.6	11.1	0.0	21,770.2
Pacific Northwest National Lab.	278,220.6	21,860.6	0.0	4,990.0	231,803.1	14,246.9	729.8	0.0	4,590.2
Project Air Force	2,261.1	0.0	0.0	53.0	0.0	0.0	0.0	2,208.1	0.0
Science and Technology Policy Institute	7,687.2	0.0	0.0	2,106.2	0.0	0.0	0.0	5,581.0	0.0
Studies and Analyses Ctr.	80,213.5	0.0	0.0	80,213.5	0.0	0.0	0.0	0.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

[a] Includes data for the Departments of the Interior, Justice, Transportation, and the Treasury and the Nuclear Regulatory Commission.

[b] Includes university consortia.

[c] Other than universities and colleges.

[d] In April 2011, the C3I Federally Funded Research and Development Center was renamed the National Security Engineering Center.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2011
(Dollars in thousands)

FFRDC	Total	DHS	DOE	NASA	NSF
All FFRDCs	852,281.5	163,559.0	677,375.1	4,226.7	7,120.8
Administered by industrial firms	118,328.5	16,322.8	102,005.8	0.0	0.0
Idaho National Lab.	201.0	0.0	201.0	0.0	0.0
Lawrence Livermore National Lab.	25,757.6	7,910.7	17,846.9	0.0	0.0
Los Alamos National Lab.	60,762.0	3,469.5	57,292.4	0.0	0.0
Sandia National Labs.	31,606.5	4,942.5	26,663.9	0.0	0.0
Savannah River National Lab.	1.5	0.0	1.5	0.0	0.0
Administered by universities and colleges[a]	242,932.6	2,475.0	232,202.8	1,134.1	7,120.8
Ames Lab.	3,876.6	0.0	3,876.6	0.0	0.0
Argonne National Lab.	33,244.5	0.0	33,244.5	0.0	0.0
Fermi National Accelerator Lab.	68,527.6	0.0	68,527.6	0.0	0.0
Jet Propulsion Lab.	1,134.1	0.0	0.0	1,134.1	0.0
Lawrence Berkeley National Lab.	42,280.7	0.0	42,280.7	0.0	0.0
Lincoln Lab.	2,475.0	2,475.0	0.0	0.0	0.0
National Ctr. for Atmospheric Research	7,120.8	0.0	0.0	0.0	7,120.8
Princeton Plasma Physics Lab.	17,338.0	0.0	17,338.0	0.0	0.0
SLAC National Accelerator Lab.	21,991.4	0.0	21,991.4	0.0	0.0
Thomas Jefferson National Accelerator Facility	44,944.0	0.0	44,944.0	0.0	0.0
Administered by nonprofit institutions[b]	491,020.4	144,761.2	343,166.6	3,092.6	0.0
Aerospace FFRDC	149.9	0.0	0.0	149.9	0.0
Brookhaven National Lab.	178,313.0	0.0	178,132.3	180.7	0.0
Ctr. for Nuclear Waste Regulatory Analyses	2,762.0	0.0	0.0	2,762.0	0.0
Homeland Security Studies and Analysis Institute	27,893.0	27,893.0	0.0	0.0	0.0
Homeland Security Systems Engineering and Development Institute	86,799.8	86,799.8		0.0	0.0
National Biodefense Analysis and Countermeasures Ctr.	24,505.8	24,505.8	0.0	0.0	0.0
National Renewable Energy Lab.	41,251.0	0.0	41,251.0	0.0	0.0
National Security Engineering Ctr.[c]	1,028.6	1,028.6	0.0	0.0	0.0
Oak Ridge National Lab.	109,379.0	738.4	108,640.6	0.0	0.0
Pacific Northwest National Lab.	18,938.4	3,795.7	15,142.7	0.0	0.0

DHS = Department of Homeland Security; DOE = Department of Energy; FFRDC = federally funded research and development center; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

[a] Includes university consortia.

[b] Other than universities and colleges.

[c] In April 2011, the C3I Federally Funded Research and Development Center was renamed the National Security Engineering Center.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 16. Federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	58,023,706.0	12,663,350.0	6,037,386.2	2,984,385.3	26,253,223.3	2,224,422.4	5,760,804.1	1,447,674.5	282,219.7	370,240.4
Departments										
Department of Agriculture	2,125,362.2	1,316,598.8	21,426.4	0.0	749,842.9	0.0	24,435.4	0.0	11,252.5	1,806.1
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,019,701.4	938,921.3	0.0	0.0	68,603.6	0.0	10,534.3	0.0	212.7	1,429.5
Economic Research Service	81,125.9	71,639.4	3,354.6	0.0	4,738.2	0.0	1,324.3	0.0	0.0	69.4
Foreign Agricultural Service	613.8	232.9	0.0	0.0	322.7	0.0	58.2	0.0	0.0	0.0
Forest Service	281,917.8	235,078.4	1,258.8	0.0	32,835.4	0.0	4,216.2	0.0	8,221.8	307.2
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,403.0	6,241.9	0.0	0.0	938.1	0.0	223.0	0.0	0.0	0.0
National Institute of Food and Agriculture	724,082.0	54,651.0	16,813.0	0.0	642,205.0	0.0	7,595.0	0.0	2,818.0	0.0
Rural Business-Cooperative Service	1,684.4	1,000.0	0.0	0.0	200.0	0.0	484.4	0.0	0.0	0.0
Department of Commerce	940,972.4	737,119.4	47,973.7	0.0	144,352.1	211.8	6,804.9	0.0	3,839.0	671.6
Economic Development Administration	650.0	25.0	0.0	0.0	200.0	0.0	425.0	0.0	0.0	0.0
National Institute of Standards and Technology	472,959.6	386,593.1	47,338.7	0.0	35,893.3	0.0	2,519.9	0.0	50.0	564.6
National Oceanic and Atmospheric Administration	448,759.0	331,897.6	635.0	0.0	108,258.7	211.8	3,860.0	0.0	3,789.0	107.0
National Telecommunications and Information Administration	7,808.8	7,808.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	10,795.0	10,795.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,595,711.4	2,191,953.0	2,272,753.8	35,848.0	1,749,174.2	76,541.6	183,981.3	20,404.2	1,625.9	63,429.4
Defense Advanced Research Projects Agency	1,384,005.0	90,925.3	714,824.7	9,953.9	472,113.0	17,646.9	56,066.4	4,747.0	0.0	17,728.0
Department of the Air Force	1,673,931.3	672,316.8	613,205.2	2,812.9	350,884.9	2,721.7	5,399.5	3,608.2	755.1	22,227.0
Department of the Army	1,478,454.5	625,530.9	462,114.8	3,980.0	319,748.1	4,170.0	59,286.7	2,587.0	0.0	1,037.0
Department of the Navy	1,295,433.1	442,492.8	353,478.6	7,995.0	416,901.4	8,448.0	46,761.3	4,728.0	870.8	13,757.2
Other defense agencies[b]	763,887.6	360,687.3	129,130.5	11,106.2	189,526.8	43,555.0	16,467.5	4,734.0	0.0	8,680.3
Department of Education	213,027.4	11,029.0	5,520.1	0.0	156,784.5	0.0	39,693.7	0.0	0.0	0.0
Department of Energy	7,350,072.4	402,202.5	511,414.5	2,365,480.2	925,832.6	1,698,238.1	114,610.0	1,322,377.2	6,445.1	3,472.2
Advanced Research Projects Agency—Energy	127,788.2	13,140.0	34,067.0	1,555.7	63,644.4	4,597.1	4,419.7	6,364.3	0.0	0.0
Bonneville Power Administration	5,282.1	518.5	2,316.3	0.0	350.0	0.0	2,000.0	0.0	97.2	0.0
Electricity Delivery and Energy Reliability	61,778.0	3,538.0	9,827.2	9,793.3	4,592.9	2,953.8	17,879.5	13,193.3	0.0	0.0
Energy Efficiency and Renewable Energy	467,500.0	182,666.1	0.0	46,310.1	48,036.5	43,200.3	13,283.2	134,003.8	0.0	0.0
Environmental Management	22,265.0	1.0	6,697.0	6,859.2	818.4	916.1	1,500.0	5,473.4	0.0	0.0
Fossil Energy	184,765.0	55,652.7	36,830.2	26,640.1	24,266.0	4,169.3	25,437.8	5,421.1	6,347.8	0.0
National Nuclear Security Administration	2,250,363.6	93,361.8	172,898.6	1,867,924.7	66,462.5	8,014.6	3,246.0	38,455.4	0.0	0.0
Defense Programs	1,974,730.0	87,586.8	140,700.3	1,680,466.1	63,231.8	2,091.0	654.0	0.0	0.0	0.0
Nonproliferation and Verification	275,633.5	5,775.0	32,198.4	187,458.5	3,230.6	5,923.6	2,592.0	38,455.4	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nuclear Energy	326,812.3	1,500.0	15,720.0	208,566.9	331.3	31,144.4	0.0	69,549.7	0.0	0.0
Office of Science	3,903,518.2	51,824.4	233,058.1	197,830.2	717,330.6	1,603,242.5	46,843.9	1,049,916.2	0.0	3,472.2
Department of Health and Human Services	30,770,732.8	5,661,260.7	1,768,510.7	463,142.8	17,694,424.3	44,184.4	4,745,075.6	22,993.0	117,600.5	253,540.7
Administration for Children and Families	9,603.0	274.0	0.0	0.0	8,974.8	0.0	354.1	0.0	0.0	*
Agency for Healthcare Research and Quality	340,999.5	55,613.2	113,213.3	0.0	109,871.4	0.0	61,214.7	0.0	398.5	688.5
Agency for Toxic Substances and Disease Registry	5,099.7	2,287.9	0.0	0.0	1,627.6	0.0	1,184.3	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	347,586.7	132,304.5	33,519.3	0.0	118,310.3	1,215.3	19,701.5	0.0	29,972.6	12,563.1
Ctrs. for Medicare and Medicaid Services	35,424.0	40.0	29,630.7	0.0	908.0	0.0	2,778.3	69.5	1,997.6	0.0
Food and Drug Administration	225,202.2	211,381.8	5,178.7	0.0	5,413.5	0.0	2,732.5	0.0	95.8	400.0
Health Resources and Services Administration	26,708.8	3,604.5	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	29,760,242.0	5,252,802.5	1,579,419.6	463,142.8	17,430,924.6	42,969.1	4,643,034.7	22,923.6	85,136.1	239,889.1
Office of the Secretary	19,866.8	2,952.2	7,549.2	0.0	3,397.4	0.0	5,967.9	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	2,952.2	7,549.2	0.0	3,397.4	0.0	5,967.9	0.0	0.0	0.0
Department of Homeland Security	248,103.7	74,724.7	46,257.9	31,187.9	54,826.8	8,681.8	3,643.5	28,154.0	0.0	627.1
Science and Technology Directorate	241,015.7	74,120.2	39,868.4	31,187.9	54,732.8	8,681.8	3,643.5	28,154.0	0.0	627.1
U.S. Coast Guard	7,088.0	604.5	6,389.5	0.0	94.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	48,754.9	30,176.9	12,111.6	0.0	1,036.2	0.0	5,221.0	0.0	209.2	0.0
Department of the Interior	629,491.4	492,552.5	19,382.0	0.0	94,560.4	482.4	9,755.2	0.0	10,051.8	2,707.1
Bureau of Ocean Energy Management, Regulation and Enforcement	45,399.2	12,750.6	16,176.3	0.0	11,574.0	482.4	1,709.0	0.0	0.0	2,707.1
Bureau of Reclamation	8,599.0	5,368.0	1,582.0	0.0	1,649.0	0.0	0.0	0.0	0.0	0.0
National Park Service	8,301.1	688.5	162.0	0.0	7,161.7	0.0	288.9	0.0	0.0	0.0
U.S. Geological Survey	567,192.0	473,745.4	1,461.7	0.0	74,175.8	0.0	7,757.3	0.0	10,051.8	0.0
Department of Justice	84,466.8	15,096.6	14,949.9	975.0	29,549.7	355.0	15,291.4	275.7	7,973.6	0.0
Bureau of Prisons	3,463.0	1,489.1	0.0	0.0	0.0	0.0	0.0	0.0	1,973.9	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	72,937.1	5,540.8	14,949.9	975.0	29,549.7	355.0	15,291.4	275.7	5,999.6	0.0
Department of Labor	53,006.8	4,498.4	48,508.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	48,543.8	1,311.4	47,232.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,298.0	3,022.0	1,276.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	636,992.8	167,125.2	196,528.5	63,584.7	56,375.4	10.9	34,614.6	17,210.7	101,220.4	322.5
Federal Aviation Administration	210,101.0	90,123.2	89,773.1	0.0	18,539.4	10.9	4,851.3	6,803.2	0.0	0.0
Federal Highway Administration	299,756.8	41,884.7	53,861.0	63,584.7	10,921.1	0.0	28,037.4	10,407.5	91,060.4	0.0
Federal Motor Carrier Safety Administration	5,707.4	322.5	784.4	0.0	3,512.2	0.0	765.9	0.0	0.0	322.5
Federal Railroad Administration	20,336.4	2,585.1	7,567.5	0.0	9,223.8	0.0	960.0	0.0	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Transit Administration	23,294.0	1,252.0	6,000.0	0.0	5,882.0	0.0	0.0	0.0	10,160.0	0.0
National Highway Traffic Safety Administration	71,000.0	25,186.0	37,517.2	0.0	8,296.8	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	3,361.4	2,336.0	1,025.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,435.7	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	76,977.3	73,312.8	3,487.3	0.0	27.5	0.0	0.0	149.8	0.0	0.0
Bureau of Engraving and Printing	5,174.6	5,174.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,815.4	68,088.1	2,550.0	0.0	27.5	0.0	0.0	149.8	0.0	0.0
U.S. Mint	987.3	50.0	937.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	575,420.2	575,420.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	119,195.3	4,700.0	15,081.0	0.0	22,427.0	0.0	69,802.3	0.0	0.0	7,185.0
Appalachian Regional Commission	389.1	*	90.5	0.0	0.0	0.0	298.7	0.0	0.0	0.0
Environmental Protection Agency	491,390.0	255,084.2	156,275.8	0.0	79,185.0	0.0	0.0	0.0	0.0	845.0
Federal Communications Commission	3,660.6	3,660.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,728.8	2,728.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	884.3	884.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,574,619.4	342,849.5	558,242.6	406.9	381,519.3	185,206.5	97,903.4	6,279.0	400.1	1,812.1
National Archives and Records Administration	3,052.5	1,786.1	0.0	0.0	1,266.4	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,145,590.0	83,981.0	295,062.9	0.0	4,101,206.4	202,586.7	402,915.9	8,054.1	21,386.6	30,396.5
Nuclear Regulatory Commission	83,796.3	7,960.6	11,246.7	23,759.8	6,146.6	7,923.4	1,582.3	21,776.8	0.0	3,400.2
Smithsonian Institution	193,052.0	193,052.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	52,997.0	10,334.0	32,562.0	0.0	4,686.0	0.0	5,175.0	0.0	215.0	25.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.
[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	58,049,759.7	13,049,331.2	5,838,955.7	2,917,567.0	26,227,991.5	2,208,578.6	5,743,694.1	1,394,353.4	288,349.0	380,939.1
Departments										
Department of Agriculture	2,246,478.4	1,321,637.9	23,148.8	0.0	865,872.9	0.0	23,240.1	0.0	11,199.3	1,379.3
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	991,342.8	927,940.6	0.0	0.0	54,269.8	0.0	7,900.7	0.0	159.5	1,072.1
Economic Research Service	77,723.0	69,044.0	4,500.0	0.0	3,179.0	0.0	1,000.0	0.0	0.0	0.0
Foreign Agricultural Service	613.8	232.9	0.0	0.0	322.7	0.0	58.2	0.0	0.0	0.0
Forest Service	303,697.9	256,858.5	1,258.8	0.0	32,835.4	0.0	4,216.2	0.0	8,221.8	307.2
Grain Inspection, Packers, and Stockyards Administration	6,290.6	6,290.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	6,760.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	854,017.0	51,368.0	17,390.0	0.0	774,846.0	0.0	7,595.0	0.0	2,818.0	0.0
Rural Business-Cooperative Service	3,250.0	1,000.0	0.0	0.0	0.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	981,523.6	795,467.1	28,572.3	0.0	142,897.4	211.8	7,625.9	1,479.9	5,091.5	177.8
Economic Development Administration	5,180.0	199.2	0.0	0.0	3,500.9	0.0	0.0	1,479.9	0.0	0.0
National Institute of Standards and Technology	496,241.7	416,776.4	27,813.6	0.0	43,552.2	0.0	7,484.9	0.0	564.6	50.0
National Oceanic and Atmospheric Administration	406,325.0	304,714.6	758.7	0.0	95,844.3	211.8	141.0	0.0	4,526.9	127.8
National Telecommunications and Information Administration	7,494.7	7,494.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	66,282.2	66,282.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,619,402.4	2,302,927.3	2,270,065.1	34,623.4	1,668,366.3	68,828.7	142,268.3	42,651.1	13,609.2	76,063.1
Defense Advanced Research Projects Agency	1,586,204.0	104,412.2	790,666.9	11,718.2	569,081.1	19,848.9	62,892.8	5,295.0	0.0	22,288.9
Department of the Air Force	1,800,748.0	759,746.7	624,235.5	3,765.4	338,641.6	1,219.6	8,141.5	20,712.5	9,282.6	35,002.5
Department of the Army	1,332,088.5	704,274.1	369,914.0	3,174.2	221,017.4	12,261.1	9,053.9	6,717.3	3,409.0	2,267.5
Department of the Navy	1,364,135.1	466,598.0	379,135.4	8,575.0	431,627.0	9,114.6	48,752.7	5,068.0	917.6	14,346.8
Other defense agencies[b]	536,226.9	267,896.2	106,113.3	7,390.6	107,999.2	26,384.5	13,427.3	4,858.4	0.0	2,157.3
Department of Education	210,391.0	11,693.2	6,474.1	0.0	150,851.8	0.0	41,371.9	0.0	0.0	0.0
Department of Energy	7,085,893.5	720,790.4	310,959.4	2,299,465.6	758,686.2	1,644,750.5	79,614.0	1,265,275.6	4,693.7	1,658.0
Advanced Research Projects Agency—Energy	60,978.0	12,100.0	33,691.0	495.0	9,511.4	1,213.2	2,311.4	1,655.9	0.0	0.0
Bonneville Power Administration	6,134.5	924.7	3,724.8	0.0	300.0	0.0	1,075.0	0.0	110.0	0.0
Electricity Delivery and Energy Reliability	37,643.5	2,066.9	5,169.7	7,529.0	3,057.8	3,216.0	1,432.6	15,171.5	0.0	0.0
Energy Efficiency and Renewable Energy	441,211.0	172,394.6	0.0	44,143.0	45,335.3	40,770.8	12,536.2	126,031.1	0.0	0.0
Environmental Management	6,755.0	1.0	3,491.7	1,242.1	0.0	452.4	0.0	1,567.7	0.0	0.0
Fossil Energy	133,418.0	40,186.5	26,594.9	19,236.7	17,522.4	3,010.6	18,368.5	3,914.6	4,583.7	0.0
National Nuclear Security Administration	2,422,023.5	286,421.8	125,330.3	1,897,057.9	65,778.6	6,913.5	1,699.0	38,822.3	0.0	0.0
Defense Programs	2,143,383.7	276,537.3	90,988.6	1,712,749.8	62,083.0	1,000.0	25.0	0.0	0.0	0.0
Nonproliferation and Verification	278,639.8	9,884.5	34,341.8	184,308.1	3,695.6	5,913.5	1,674.0	38,822.3	0.0	0.0
Nuclear Energy	242,302.1	1,400.0	10,073.8	124,577.6	7,151.0	23,940.7	0.0	75,159.0	0.0	0.0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Office of Science	3,735,427.9	205,294.9	102,883.1	205,184.3	610,029.6	1,565,233.2	42,191.3	1,002,953.5	0.0	1,658.0
Department of Health and Human Services	30,844,520.1	5,570,695.3	1,761,703.3	472,229.5	17,829,353.3	47,201.9	4,777,483.9	23,130.8	107,127.0	255,595.2
Administration for Children and Families	9,804.6	279.8	0.0	0.0	9,163.3	0.0	361.6	0.0	0.0	*
Agency for Healthcare Research and Quality	339,528.8	55,373.3	112,724.9	0.0	109,397.5	0.0	60,950.7	0.0	396.7	685.5
Agency for Toxic Substances and Disease Registry	4,831.4	3,131.4	0.0	0.0	1,000.0	0.0	700.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	309,749.4	132,571.9	31,404.9	0.0	97,635.4	3,844.4	11,105.6	0.0	20,721.9	12,465.3
Ctrs. for Medicare and Medicaid Services	21,160.0	40.0	18,870.0	0.0	530.0	0.0	1,710.0	0.0	10.0	0.0
Food and Drug Administration	217,703.5	204,343.2	5,006.2	0.0	5,233.2	0.0	2,641.5	0.0	92.6	386.7
Health Resources and Services Administration	26,710.4	3,606.2	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	29,895,432.0	5,166,449.6	1,593,697.2	467,329.5	17,588,497.1	43,357.5	4,685,006.9	23,130.8	85,905.7	242,057.6
Office of the Secretary	19,600.0	4,900.0	0.0	4,900.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	4,900.0	0.0	4,900.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Department of Homeland Security	223,343.6	71,070.3	41,570.0	27,180.0	47,699.3	7,566.1	3,175.3	24,536.0	0.0	546.5
Science and Technology Directorate	210,043.6	64,595.3	34,745.0	27,180.0	47,699.3	7,566.1	3,175.3	24,536.0	0.0	546.5
U.S. Coast Guard	13,300.0	6,475.0	6,825.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	64,611.4	29,536.2	11,347.9	0.0	377.7	0.0	23,245.1	0.0	104.6	0.0
Department of the Interior	617,743.7	492,039.6	16,096.5	1,518.9	86,349.7	0.0	10,579.4	0.0	10,660.4	499.2
Bureau of Ocean Energy Management[c]	37,729.3	16,862.3	8,712.3	0.0	11,051.0	0.0	150.0	0.0	750.0	203.8
Bureau of Reclamation	7,490.0	2,397.0	1,873.0	0.0	599.0	0.0	2,546.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement[c]	7,347.4	1,056.4	4,552.9	996.1	366.6	0.0	80.0	0.0	0.0	295.4
U.S. Geological Survey	565,177.0	471,724.0	958.3	522.8	74,333.1	0.0	7,803.4	0.0	9,835.4	0.0
Department of Justice	56,796.2	11,557.3	8,558.9	767.9	18,352.1	383.9	9,694.7	383.9	7,097.5	0.0
Bureau of Prisons	3,288.0	1,413.8	0.0	0.0	0.0	0.0	0.0	0.0	1,874.2	0.0
Federal Bureau of Investigation	7,281.5	7,281.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	46,226.7	2,861.9	8,558.9	767.9	18,352.1	383.9	9,694.7	383.9	5,223.4	0.0
Department of Labor	13,014.3	4,804.3	8,210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	8,899.3	1,499.3	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3,950.0	3,140.0	810.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,182.5	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	675,045.7	193,528.0	208,256.1	60,814.4	53,175.7	12.1	42,947.3	9,463.2	106,772.6	76.2
Federal Aviation Administration	230,771.0	97,858.5	99,451.4	0.0	20,538.1	12.1	5,374.3	7,536.6	0.0	0.0
Federal Highway Administration	330,721.4	53,078.2	60,377.8	60,814.4	14,085.4	0.0	36,001.4	1,926.6	104,437.6	0.0
Federal Motor Carrier Safety Administration	6,551.1	152.4	761.8	0.0	4,837.2	0.0	723.7	0.0	0.0	76.2
Federal Railroad Administration	18,925.0	9,465.0	5,152.0	0.0	3,460.0	0.0	848.0	0.0	0.0	0.0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Transit Administration	6,108.0	1,312.0	503.0	0.0	1,958.0	0.0	0.0	0.0	2,335.0	0.0
National Highway Traffic Safety Administration	72,000.0	25,541.0	38,162.0	0.0	8,297.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	5,630.2	1,782.0	3,848.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,339.0	4,339.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74,765.1	71,374.3	3,390.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	4,531.7	4,531.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,908.7	66,792.6	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,324.7	50.0	1,274.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	570,648.9	570,648.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	121,579.2	4,794.0	15,382.6	0.0	22,875.6	0.0	71,198.3	0.0	0.0	7,328.7
Appalachian Regional Commission	390.0	*	190.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	479,079.0	248,693.5	152,360.5	0.0	77,201.1	0.0	0.0	0.0	0.0	823.8
Federal Communications Commission	3,883.4	3,883.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,907.2	1,907.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	586.3	586.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,636,504.8	310,635.8	618,857.2	409.3	371,443.2	229,464.4	96,826.1	6,615.9	398.0	1,855.0
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,176,990.0	84,595.9	295,551.3	0.0	4,127,279.2	204,137.5	405,294.9	8,113.0	21,436.0	30,582.1
Nuclear Regulatory Commission	68,804.9	8,434.6	12,557.0	20,558.0	2,976.7	6,021.8	1,198.8	12,703.9	0.0	4,354.1
Smithsonian Institution	193,526.0	193,526.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	78,160.0	21,067.0	45,704.0	0.0	3,300.0	0.0	7,930.0	0.0	159.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	59,969,155.7	13,532,972.0	6,365,225.9	3,190,907.3	26,612,689.8	2,266,204.5	5,767,363.9	1,551,520.9	295,847.8	386,423.7
Departments										
Department of Agriculture	2,064,613.2	1,282,260.3	23,636.8	0.0	722,924.3	0.0	23,213.1	0.0	11,199.3	1,379.3
Agricultural Marketing Service	2,643.3	2,643.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	992,308.5	924,479.9	0.0	0.0	58,696.2	0.0	7,900.7	0.0	159.5	1,072.1
Economic Research Service	77,397.0	68,931.0	4,500.0	0.0	2,966.0	0.0	1,000.0	0.0	0.0	0.0
Foreign Agricultural Service	613.8	232.9	0.0	0.0	322.7	0.0	58.2	0.0	0.0	0.0
Forest Service	266,358.0	219,518.6	1,258.8	0.0	32,835.4	0.0	4,216.2	0.0	8,221.8	307.2
Grain Inspection, Packers, and Stockyards Administration	6,890.6	6,890.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	6,760.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	707,752.0	51,804.0	17,878.0	0.0	627,684.0	0.0	7,568.0	0.0	2,818.0	0.0
Rural Business-Cooperative Service	3,250.0	1,000.0	0.0	0.0	0.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	1,440,530.3	954,009.3	258,672.9	0.0	211,687.2	211.8	11,548.4	0.0	3,730.6	670.1
National Institute of Standards and Technology	852,893.4	475,372.9	258,056.1	0.0	107,414.5	0.0	11,433.8	0.0	50.0	566.2
National Oceanic and Atmospheric Administration	451,523.0	342,522.6	616.8	0.0	104,272.7	211.8	114.6	0.0	3,680.6	103.9
National Telecommunications and Information Administration	6,682.2	6,682.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	129,431.6	129,431.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,768,765.1	2,362,264.8	2,242,346.4	49,724.2	1,774,764.7	68,331.1	154,757.7	28,600.3	6,664.0	81,311.9
Defense Advanced Research Projects Agency	1,525,784.0	100,481.9	753,957.1	11,343.3	553,859.0	19,006.1	60,182.5	5,059.7	0.0	21,894.4
Department of the Air Force	1,852,765.4	800,909.9	597,344.4	7,096.6	386,637.2	6,736.2	12,089.6	8,476.6	5,725.3	27,749.5
Department of the Army	1,314,251.4	663,638.3	396,273.6	2,330.0	236,740.2	4,427.0	8,243.2	2,009.0	0.0	590.1
Department of the Navy	1,395,337.2	476,618.5	374,926.0	8,499.4	454,627.9	8,938.7	50,813.1	5,028.6	938.7	14,946.3
Other defense agencies[b]	680,627.1	320,616.2	119,845.3	20,454.9	142,900.3	29,223.1	23,429.4	8,026.4	0.0	16,131.7
Department of Education	231,718.1	11,696.4	5,766.9	0.0	166,386.0	0.0	47,868.9	0.0	0.0	0.0
Department of Energy	7,988,908.9	947,314.2	471,124.1	2,541,629.6	843,884.3	1,672,286.9	82,173.4	1,425,195.8	4,392.7	908.0
Advanced Research Projects Agency—Energy	141,620.0	18,250.0	60,330.5	2,038.2	46,611.0	4,167.9	5,218.3	5,004.2	0.0	0.0
Bonneville Power Administration	14,556.0	2,321.3	10,034.7	0.0	725.0	0.0	1,350.0	0.0	125.0	0.0
Electricity Delivery and Energy Reliability	67,776.8	3,721.4	9,308.0	13,555.9	5,505.5	5,790.4	2,579.4	27,316.2	0.0	0.0
Energy Efficiency and Renewable Energy	739,014.0	288,754.4	0.0	72,995.5	75,935.0	68,290.3	20,997.8	212,041.0	0.0	0.0
Environmental Management	6,600.0	1.0	491.0	3,184.7	0.0	495.0	0.0	2,428.3	0.0	0.0
Fossil Energy	124,218.2	37,415.5	24,761.1	17,910.3	16,314.1	2,803.0	17,101.9	3,644.6	4,267.7	0.0
National Nuclear Security Administration	2,596,152.8	227,788.5	106,345.8	2,151,663.1	63,945.6	5,913.5	1,674.0	38,822.3	0.0	0.0
Defense Programs	2,317,513.0	217,904.0	72,004.0	1,967,355.0	60,250.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	278,639.8	9,884.5	34,341.8	184,308.1	3,695.6	5,913.5	1,674.0	38,822.3	0.0	0.0
Nuclear Energy	305,918.0	1,500.0	83,558.0	103,663.0	18,578.0	24,192.0	0.0	74,427.0	0.0	0.0
Office of Science	3,993,053.0	367,562.0	176,295.0	176,618.9	616,270.0	1,560,634.8	33,252.0	1,061,512.3	0.0	908.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Health and Human Services	30,784,742.5	5,553,370.8	1,757,504.3	467,420.5	17,805,299.1	47,210.3	4,771,118.6	23,135.3	104,631.0	255,052.5
Administration for Children and Families	10,010.5	285.6	0.0	0.0	9,355.7	0.0	369.2	0.0	0.0	*
Agency for Healthcare Research and Quality	307,608.4	50,167.5	102,127.3	0.0	99,112.7	0.0	55,220.5	0.0	359.5	621.1
Agency for Toxic Substances and Disease Registry	4,831.4	3,131.4	0.0	0.0	1,000.0	0.0	700.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	232,599.4	81,196.1	27,950.4	0.0	78,968.4	3,844.4	10,533.7	0.0	18,239.1	11,867.2
Ctrs. for Medicare and Medicaid Services	24,567.0	40.0	22,971.0	0.0	726.0	0.0	830.0	0.0	0.0	0.0
Food and Drug Administration	258,662.3	242,788.4	5,948.1	0.0	6,217.8	0.0	3,138.5	0.0	110.0	459.4
Health Resources and Services Administration	26,710.4	3,606.2	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	29,901,253.0	5,167,455.5	1,594,007.5	467,420.5	17,591,921.8	43,366.0	4,685,919.2	23,135.3	85,922.5	242,104.7
Office of the Secretary	18,500.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,500.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Department of Homeland Security	309,366.8	94,886.0	55,036.0	39,147.1	68,700.8	10,897.4	4,573.4	35,339.0	0.0	787.1
Science and Technology Directorate	302,523.8	93,036.0	50,043.0	39,147.1	68,700.8	10,897.4	4,573.4	35,339.0	0.0	787.1
U.S. Coast Guard	6,843.0	1,850.0	4,993.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	57,050.7	32,838.3	16,227.3	0.0	341.3	0.0	7,643.8	0.0	0.0	0.0
Department of the Interior	670,894.0	528,223.6	17,188.6	2,585.0	96,683.8	0.0	11,238.8	0.0	14,674.3	300.0
Bureau of Ocean Energy Management[c]	38,966.2	16,359.2	6,429.2	0.0	12,637.8	0.0	185.7	0.0	3,354.3	0.0
Bureau of Reclamation	7,490.0	2,397.0	1,873.0	0.0	599.0	0.0	2,546.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement[c]	13,073.8	899.6	7,874.2	2,000.0	2,000.0	0.0	0.0	0.0	0.0	300.0
U.S. Geological Survey	611,364.0	508,567.8	1,012.1	585.0	81,447.0	0.0	8,507.1	0.0	11,245.0	0.0
Department of Justice	10,655.5	8,732.4	0.0	0.0	0.0	0.0	0.0	0.0	1,923.2	0.0
Bureau of Prisons	3,374.0	1,450.8	0.0	0.0	0.0	0.0	0.0	0.0	1,923.2	0.0
Federal Bureau of Investigation	7,281.5	7,281.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	13,260.5	4,950.5	8,310.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	8,950.5	1,550.5	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,145.0	3,235.0	910.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,020.0	2,020.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	726,331.1	202,960.8	203,768.1	68,995.4	75,221.4	11.8	39,743.3	9,897.9	125,732.5	0.0
Federal Aviation Administration	223,050.0	94,038.5	96,532.5	0.0	19,935.3	11.8	5,216.6	7,315.4	0.0	0.0
Federal Highway Administration	337,892.2	61,061.9	40,919.4	68,995.4	22,096.3	0.0	33,747.2	2,582.5	108,489.5	0.0
Federal Motor Carrier Safety Administration	6,494.5	153.0	1,223.9	0.0	4,390.9	0.0	726.7	0.0	0.0	0.0
Federal Railroad Administration	10,570.4	1,786.4	3,932.2	0.0	4,799.0	0.0	52.9	0.0	0.0	0.0
Federal Transit Administration	30,741.0	1,498.0	1,000.0	0.0	11,000.0	0.0	0.0	0.0	17,243.0	0.0
National Highway Traffic Safety Administration	111,000.0	39,375.0	58,625.0	0.0	13,000.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,595.0	1,060.0	1,535.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Research and Innovative Technology Administration	3,988.0	3,988.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,945.9	75,829.9	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	9,037.3	9,037.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,908.7	66,792.6	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	556,430.1	556,430.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	124,010.8	4,889.9	15,690.3	0.0	23,333.1	0.0	72,622.3	0.0	0.0	7,475.3
Appalachian Regional Commission	390.0	*	190.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	487,744.0	253,191.6	155,116.2	0.0	78,597.5	0.0	0.0	0.0	0.0	838.7
Federal Communications Commission	4,760.3	4,760.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,942.0	1,942.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	621.5	621.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,867,330.0	324,164.1	773,590.8	424.8	410,926.1	248,483.2	100,770.9	6,600.6	449.6	1,920.1
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,423,350.0	88,812.9	307,162.6	0.0	4,325,641.7	214,440.1	424,286.9	8,517.3	22,450.7	32,037.7
Nuclear Regulatory Commission	80,848.9	13,059.5	18,759.7	20,980.7	3,864.9	4,332.0	1,874.5	14,234.7	0.0	3,742.9
Smithsonian Institution	198,978.0	198,978.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	73,959.0	23,510.0	33,019.0	0.0	3,500.0	0.0	13,930.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FYs 2011–13
(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	58,023,706.0	58,049,759.7	59,969,155.7
Computer sciences and mathematics	3,374,346.1	3,450,607.4	3,751,006.4
Computer sciences	2,191,689.3	NA	NA
Mathematics	891,628.1	NA	NA
Other computer sciences and mathematics	291,028.7	NA	NA
Engineering	10,057,180.2	9,873,067.3	10,742,556.6
Aeronautical engineering	845,131.0	NA	NA
Astronautical engineering	410,086.9	NA	NA
Chemical engineering	474,540.1	NA	NA
Civil engineering	617,089.0	NA	NA
Electrical engineering	1,235,460.0	NA	NA
Mechanical engineering	309,790.5	NA	NA
Metallurgy and materials engineering	1,621,251.1	NA	NA
Other engineering	4,543,831.6	NA	NA
Environmental sciences	3,207,186.1	3,078,985.3	3,140,253.2
Atmospheric sciences	953,897.6	NA	NA
Geological sciences	597,839.2	NA	NA
Oceanography	723,704.6	NA	NA
Other environmental sciences	931,744.7	NA	NA
Life sciences	29,408,600.7	29,061,072.1	29,151,505.2
Agricultural sciences	1,084,952.9	NA	NA
Biological sciences (excluding environmental biology)	15,178,300.6	NA	NA
Environmental biology	854,879.8	NA	NA
Medical sciences	10,161,101.8	NA	NA
Other life sciences	2,129,365.5	NA	NA
Physical sciences	5,426,594.6	5,574,497.8	5,949,559.3
Astronomy	555,365.7	NA	NA
Chemistry	1,106,345.5	NA	NA
Physics	3,268,796.6	NA	NA
Other physical sciences	496,086.8	NA	NA
Psychology	1,886,842.8	1,914,223.3	1,923,432.8
Biological aspects	16,371.8	NA	NA
Social aspects	54,487.9	NA	NA
Other psychological sciences	1,815,983.1	NA	NA
Social sciences	1,262,407.8	1,202,854.0	1,252,946.7
Anthropology	26,126.5	NA	NA
Economics	398,569.7	NA	NA
Political science	11,969.2	NA	NA
Sociology	132,533.3	NA	NA
Other social sciences	693,209.1	NA	NA
Other sciences nec	3,400,547.8	3,894,452.4	4,057,895.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	58,023,706.0	3,374,346.1	10,057,180.2	3,207,186.1	29,408,600.7	5,426,594.6	1,886,842.8	1,262,407.8	3,400,547.8
Departments									
Department of Agriculture	2,125,362.2	10,050.6	42,871.4	31,318.1	1,742,215.1	96,033.1	0.0	202,873.9	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	1,019,701.4	1,325.6	9,177.3	4,486.7	936,799.7	67,912.1	0.0	0.0	0.0
Economic Research Service	81,125.9	0.0	0.0	0.0	0.0	0.0	0.0	81,125.9	0.0
Foreign Agricultural Service	613.8	0.0	0.0	0.0	613.8	0.0	0.0	0.0	0.0
Forest Service	281,917.8	1,322.0	7,558.1	6,592.4	199,538.3	8,671.9	0.0	58,235.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	0.0	0.0	6,690.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,403.0	7,403.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	724,082.0	0.0	26,136.0	20,239.0	595,945.0	19,449.0	0.0	62,313.0	0.0
Rural Business-Cooperative Service	1,684.4	0.0	0.0	0.0	484.4	0.0	0.0	1,200.0	0.0
Department of Commerce	940,972.4	92,883.3	194,607.6	349,784.9	59,090.5	201,608.6	800.8	19,416.3	22,780.5
Economic Development Administration	650.0	0.0	0.0	0.0	0.0	0.0	0.0	650.0	0.0
National Institute of Standards and Technology	472,959.6	82,599.4	181,075.8	111.9	14,827.5	185,335.6	0.0	94.0	8,915.5
National Oceanic and Atmospheric Administration	448,759.0	3,755.0	5,723.0	349,673.0	44,263.0	16,273.0	0.0	15,207.0	13,865.0
National Telecommunications and Information Administration	7,808.8	0.0	7,808.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	10,795.0	6,528.9	0.0	0.0	0.0	0.0	800.8	3,465.3	0.0
Department of Defense	6,595,711.4	907,121.1	3,344,698.6	281,960.2	807,547.9	852,508.2	80,159.8	91,888.0	229,827.7
Defense Advanced Research Projects Agency	1,384,005.0	370,723.9	685,747.2	13,337.1	197,421.2	69,147.1	1,714.9	45,913.6	0.0
Department of the Air Force	1,673,931.3	161,939.3	929,076.5	8,145.8	45,555.1	351,857.5	31,545.4	12,950.9	132,860.8
Department of the Army	1,478,454.5	168,102.5	726,219.1	46,216.1	280,938.8	194,234.8	34,101.2	7,636.4	21,005.7
Department of the Navy	1,295,433.1	104,888.9	762,646.4	203,197.4	110,307.2	59,772.0	3,527.9	19,836.5	31,256.8
Other defense agencies[a]	763,887.6	101,466.5	241,009.3	11,063.9	173,325.6	177,496.8	9,270.4	5,550.6	44,704.4
Department of Education	213,027.4	0.0	7,032.5	0.0	13,221.1	0.0	12,208.4	142,934.8	37,630.6
Department of Energy	7,350,072.4	976,529.2	2,762,613.6	327,088.8	408,471.2	2,586,624.7	0.0	0.0	288,744.9
Advanced Research Projects Agency—Energy	127,788.2	4,710.6	84,094.0	0.0	34,207.0	4,776.6	0.0	0.0	0.0
Bonneville Power Administration	5,282.1	0.0	5,282.1	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	61,778.0	0.0	61,778.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	467,500.0	0.0	465,900.0	0.0	376.3	1,223.7	0.0	0.0	0.0
Environmental Management	22,265.0	0.0	0.0	22,265.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	184,765.0	0.0	134,887.5	17,113.4	0.0	32,764.2	0.0	0.0	0.0
National Nuclear Security Administration	2,250,363.6	584,132.9	881,695.0	14,830.9	485.0	769,059.5	0.0	0.0	160.2
Defense Programs	1,974,730.0	568,259.5	771,749.7	0.0	0.0	634,720.8	0.0	0.0	0.0
Nonproliferation and Verification	275,633.5	15,873.4	109,945.3	14,830.9	485.0	134,338.6	0.0	0.0	160.2
Nuclear Energy	326,812.3	0.0	326,812.3	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	3,903,518.2	387,685.7	802,164.8	272,879.5	373,402.8	1,778,800.8	0.0	0.0	288,584.7

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	30,770,732.8	198,972.4	1,617,999.8	474,822.9	24,353,988.9	225,710.9	1,656,769.4	229,467.0	2,013,001.6
Administration for Children and Families	9,603.0	0.0	0.0	0.0	0.0	0.0	0.0	9,603.0	0.0
Agency for Healthcare Research and Quality	340,999.5	43,212.0	500.9	0.0	150,559.3	0.0	1,583.8	49,977.3	95,166.2
Agency for Toxic Substances and Disease Registry	5,099.7	0.0	0.0	5,099.7	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	347,586.7	0.0	0.0	87,602.7	213,870.0	0.0	1,701.2	0.0	44,412.8
Ctrs. for Medicare and Medicaid Services	35,424.0	0.0	0.0	0.0	35,424.0	0.0	0.0	0.0	0.0
Food and Drug Administration	225,202.2	0.0	0.0	0.0	225,202.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,708.8	0.0	0.0	0.0	22,088.8	0.0	0.0	4,620.0	0.0
National Institutes of Health	29,760,242.0	155,760.4	1,617,498.8	382,120.4	23,706,844.6	225,710.9	1,653,484.4	145,399.9	1,873,422.6
Office of the Secretary	19,866.8	0.0	0.0	0.0	0.0	0.0	0.0	19,866.8	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	0.0	0.0	0.0	0.0	0.0	0.0	19,866.8	0.0
Department of Homeland Security	248,103.7	41,095.5	35,079.7	8,700.4	70,667.4	30,514.7	9,807.2	17,376.0	34,862.8
Science and Technology Directorate	241,015.7	39,417.5	33,150.7	5,927.4	70,667.4	30,514.7	9,099.2	17,376.0	34,862.8
U.S. Coast Guard	7,088.0	1,678.0	1,929.0	2,773.0	0.0	0.0	708.0	0.0	0.0
Department of Housing and Urban Development	48,754.9	0.0	1,133.7	0.0	0.0	0.0	0.0	47,318.5	302.8
Department of the Interior	629,491.4	164.6	16,373.7	345,572.5	209,056.1	37,285.3	0.0	20,135.2	903.9
Bureau of Ocean Energy Management, Regulation and Enforcement	45,399.2	0.0	9,236.8	14,116.3	19,592.8	0.0	0.0	2,453.4	0.0
Bureau of Reclamation	8,599.0	0.0	7,137.0	0.0	687.9	0.0	0.0	0.0	774.1
National Park Service	8,301.1	164.6	0.0	3,943.2	3,594.0	469.6	0.0	0.0	129.8
U.S. Geological Survey	567,192.0	0.0	0.0	327,513.0	185,181.5	36,815.7	0.0	17,681.8	0.0
Department of Justice	84,466.8	5,529.6	0.0	0.0	14,473.2	7,354.2	0.0	49,043.0	8,066.7
Bureau of Prisons	3,463.0	0.0	0.0	0.0	0.0	0.0	0.0	3,463.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7
Office of Justice Programs	72,937.1	5,529.6	0.0	0.0	14,473.2	7,354.2	0.0	45,580.0	0.0
Department of Labor	53,006.8	0.0	0.0	0.0	0.0	0.0	0.0	48,708.8	4,298.0
Employee Benefits Security Administration	48,543.8	0.0	0.0	0.0	0.0	0.0	0.0	48,543.8	0.0
Occupational Safety and Health Administration	4,298.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,298.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0
Department of Transportation	636,992.8	40,621.9	416,566.6	31,136.7	45,639.2	706.6	26,872.5	35,997.9	39,451.3
Federal Aviation Administration	210,101.0	19,203.1	122,202.5	24,793.3	9,118.6	706.6	26,872.5	0.0	7,204.5
Federal Highway Administration	299,756.8	7,380.8	257,697.7	6,343.4	648.7	0.0	0.0	24,440.9	3,245.4
Federal Motor Carrier Safety Administration	5,707.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,707.4
Federal Railroad Administration	20,336.4	0.0	20,336.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	23,294.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23,294.0
National Highway Traffic Safety Administration	71,000.0	12,156.0	11,415.0	0.0	35,872.0	0.0	0.0	11,557.0	0.0
Pipeline and Hazardous Materials Safety Administration	3,361.4	1,882.0	1,479.4	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,435.7	0.0	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of the Treasury	76,977.3	0.0	987.3	0.0	0.0	5,174.6	0.0	70,815.4	0.0
Bureau of Engraving and Printing	5,174.6	0.0	0.0	0.0	0.0	5,174.6	0.0	0.0	0.0
Internal Revenue Service	70,815.4	0.0	0.0	0.0	0.0	0.0	0.0	70,815.4	0.0
U.S. Mint	987.3	0.0	987.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	575,420.2	0.0	26,342.8	0.0	484,075.4	0.0	65,002.0	0.0	0.0
Other agencies									
Agency for International Development	119,195.3	0.0	0.0	0.0	102,949.2	0.0	0.0	16,246.2	0.0
Appalachian Regional Commission	389.1	0.0	0.0	0.0	0.0	0.0	0.0	389.1	0.0
Environmental Protection Agency	491,390.0	11,582.6	60,564.5	179,134.9	224,572.9	13,204.7	0.0	2,330.3	0.0
Federal Communications Commission	3,660.6	135.0	1,542.0	0.0	0.0	600.0	0.0	1,383.6	0.0
Federal Trade Commission	2,728.8	0.0	0.0	0.0	0.0	0.0	0.0	2,728.8	0.0
Library of Congress	884.3	0.0	0.0	0.0	0.0	884.3	0.0	0.0	0.0
National Aeronautics and Space Administration	1,574,619.4	28,206.9	612,732.2	353,903.7	92,140.7	407,135.1	6,264.6	263.6	73,972.6
National Archives and Records Administration	3,052.5	2,932.5	0.0	50.0	0.0	70.0	0.0	0.0	0.0
National Science Foundation	5,145,590.0	1,058,520.9	832,237.8	814,118.0	691,896.9	901,614.7	28,958.0	172,756.3	645,487.5
Nuclear Regulatory Commission	83,796.3	0.0	83,796.3	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	193,052.0	0.0	0.0	9,595.0	88,595.0	59,565.0	0.0	34,080.0	1,217.0
Social Security Administration	52,997.0	0.0	0.0	0.0	0.0	0.0	0.0	52,997.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	58,049,759.7	3,450,607.4	9,873,067.3	3,078,985.3	29,061,072.1	5,574,497.8	1,914,223.3	1,202,854.0	3,894,452.4
Departments									
Department of Agriculture	2,246,478.4	9,811.7	48,416.3	40,514.5	1,837,577.7	98,400.1	0.0	211,758.1	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	991,342.8	1,288.7	8,922.1	4,361.9	910,746.6	66,023.4	0.0	0.0	0.0
Economic Research Service	77,723.0	0.0	0.0	0.0	0.0	0.0	0.0	77,723.0	0.0
Foreign Agricultural Service	613.8	0.0	0.0	0.0	613.8	0.0	0.0	0.0	0.0
Forest Service	303,697.9	1,123.0	8,012.2	6,799.6	215,552.4	9,362.6	0.0	62,848.1	0.0
Grain Inspection, Packers, and Stockyards Administration	6,290.6	0.0	0.0	0.0	6,290.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	854,017.0	0.0	31,482.0	29,353.0	698,981.0	23,014.0	0.0	71,187.0	0.0
Rural Business-Cooperative Service	3,250.0	0.0	0.0	0.0	3,250.0	0.0	0.0	0.0	0.0
Department of Commerce	981,523.6	113,316.9	191,264.6	314,987.7	52,221.9	209,692.5	659.0	77,269.7	22,111.4
Economic Development Administration	5,180.0	0.0	0.0	0.0	0.0	0.0	0.0	5,180.0	0.0
National Institute of Standards and Technology	496,241.7	103,994.3	178,060.9	115.5	10,672.1	193,930.5	0.0	342.7	9,125.7
National Oceanic and Atmospheric Administration	406,325.0	3,637.0	5,709.0	314,872.2	41,549.8	15,762.0	0.0	11,809.4	12,985.6
National Telecommunications and Information Administration	7,494.7	0.0	7,494.7	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	66,282.2	5,685.6	0.0	0.0	0.0	0.0	659.0	59,937.6	0.0
Department of Defense	6,619,402.4	958,083.8	3,441,057.8	296,189.3	640,992.4	862,981.7	98,611.3	60,287.8	261,198.3
Defense Advanced Research Projects Agency	1,586,204.0	418,184.9	787,807.0	16,934.1	227,682.8	82,167.2	2,341.5	0.0	51,086.5
Department of the Air Force	1,800,748.0	202,297.6	984,108.7	5,040.6	30,613.3	409,456.0	49,995.5	16,487.4	102,748.8
Department of the Army	1,332,088.5	168,374.6	688,171.5	45,712.0	190,624.1	176,720.0	37,661.2	7,029.2	17,795.8
Department of the Navy	1,364,135.1	119,540.5	771,704.8	227,430.9	109,201.8	60,553.5	5,232.6	28,360.3	42,110.8
Other defense agencies[a]	536,226.9	49,686.2	209,265.9	1,071.6	82,870.4	134,085.0	3,380.4	8,411.0	47,456.5
Department of Education	210,391.0	0.0	7,040.0	0.0	13,235.2	0.0	12,221.4	140,827.5	37,066.8
Department of Energy	7,085,893.5	991,019.4	2,408,759.1	296,567.4	85,593.2	2,599,845.1	0.0	0.0	704,109.2
Advanced Research Projects Agency—Energy	60,978.0	0.0	21,178.9	0.0	1,366.7	9,698.5	0.0	0.0	28,733.9
Bonneville Power Administration	6,134.5	0.0	6,134.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	37,643.5	0.0	37,643.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	441,211.0	0.0	434,453.0	0.0	1,589.5	5,168.5	0.0	0.0	0.0
Environmental Management	6,755.0	0.0	0.0	6,755.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	133,418.0	0.0	96,140.0	12,969.0	0.0	24,309.0	0.0	0.0	0.0
National Nuclear Security Administration	2,422,023.5	634,748.9	959,268.2	18,813.4	312.0	808,854.9	0.0	0.0	26.0
Defense Programs	2,143,383.7	618,075.8	864,038.6	0.0	0.0	661,269.3	0.0	0.0	0.0
Nonproliferation and Verification	278,639.8	16,673.2	95,229.6	18,813.4	312.0	147,585.6	0.0	0.0	26.0
Nuclear Energy	242,302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	242,302.1
Office of Science	3,735,427.9	356,270.5	853,941.0	258,030.1	82,325.0	1,751,814.2	0.0	0.0	433,047.2

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	30,844,520.1	199,493.6	1,625,345.3	453,672.6	24,437,964.0	228,488.5	1,662,572.5	229,846.8	2,007,136.8
Administration for Children and Families	9,804.6	0.0	0.0	0.0	0.0	0.0	0.0	9,804.6	0.0
Agency for Healthcare Research and Quality	339,528.8	43,025.6	498.8	0.0	149,909.9	0.0	1,577.0	49,761.8	94,755.8
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	0.0	4,831.4	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	309,749.4	0.0	0.0	64,984.9	212,564.0	1,752.2	0.0	0.0	30,448.2
Ctrs. for Medicare and Medicaid Services	21,160.0	0.0	0.0	0.0	21,160.0	0.0	0.0	0.0	0.0
Food and Drug Administration	217,703.5	0.0	0.0	0.0	217,703.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,710.4	0.0	0.0	0.0	22,090.4	0.0	0.0	4,620.0	0.0
National Institutes of Health	29,895,432.0	156,468.0	1,624,846.5	383,856.3	23,814,536.2	226,736.2	1,660,995.6	146,060.4	1,881,932.9
Office of the Secretary	19,600.0	0.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0
Department of Homeland Security	223,343.6	35,852.1	39,240.6	6,253.7	61,586.1	26,593.4	7,929.9	15,505.1	30,382.7
Science and Technology Directorate	210,043.6	34,352.1	28,890.6	5,165.7	61,586.1	26,593.4	7,929.9	15,143.1	30,382.7
U.S. Coast Guard	13,300.0	1,500.0	10,350.0	1,088.0	0.0	0.0	0.0	362.0	0.0
Department of Housing and Urban Development	64,611.4	0.0	372.4	0.0	0.0	0.0	0.0	63,610.4	628.7
Department of the Interior	617,743.7	417.6	12,664.2	256,092.8	207,625.9	117,660.0	0.0	22,683.0	600.2
Bureau of Ocean Energy Management[b]	37,729.3	417.6	0.0	12,322.8	19,413.7	0.0	0.0	5,575.2	0.0
Bureau of Reclamation	7,490.0	0.0	6,290.0	599.8	0.0	0.0	0.0	0.0	600.2
Bureau of Safety and Environmental Enforcement[b]	7,347.4	0.0	6,374.2	973.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	565,177.0	0.0	0.0	242,197.0	188,212.2	117,660.0	0.0	17,107.8	0.0
Department of Justice	56,796.2	528.9	0.0	0.0	13,250.0	4,142.7	0.0	31,593.2	7,281.5
Bureau of Prisons	3,288.0	0.0	0.0	0.0	0.0	0.0	0.0	3,288.0	0.0
Federal Bureau of Investigation	7,281.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,281.5
Office of Justice Programs	46,226.7	528.9	0.0	0.0	13,250.0	4,142.7	0.0	28,305.2	0.0
Department of Labor	13,014.3	0.0	0.0	0.0	0.0	0.0	0.0	9,064.3	3,950.0
Employee Benefits Security Administration	8,899.3	0.0	0.0	0.0	0.0	0.0	0.0	8,899.3	0.0
Occupational Safety and Health Administration	3,950.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,950.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	2,182.5	0.0
Department of Transportation	675,045.7	34,776.6	492,942.1	35,583.2	27,945.5	0.0	32,327.5	30,151.4	21,319.4
Federal Aviation Administration	230,771.0	16,602.2	133,117.9	27,605.4	13,435.5	0.0	32,327.5	0.0	7,682.7
Federal Highway Administration	330,721.4	9,679.5	291,146.1	7,901.6	94.0	0.0	0.0	20,846.4	1,053.8
Federal Motor Carrier Safety Administration	6,551.1	0.0	0.0	76.2	0.0	0.0	0.0	0.0	6,474.9
Federal Railroad Administration	18,925.0	0.0	18,925.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	6,108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,108.0
National Highway Traffic Safety Administration	72,000.0	8,048.0	40,231.0	0.0	14,416.0	0.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	5,630.2	447.0	5,183.2	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,339.0	0.0	4,339.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of the Treasury	74,765.1	0.0	1,324.7	0.0	0.0	4,404.2	0.0	0.0	69,036.2
Bureau of Engraving and Printing	4,531.7	0.0	0.0	0.0	0.0	4,404.2	0.0	0.0	127.5
Internal Revenue Service	68,908.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68,908.7
U.S. Mint	1,324.7	0.0	1,324.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	570,648.9	0.0	26,124.4	0.0	480,061.5	0.0	64,463.0	0.0	0.0
Other agencies									
Agency for International Development	121,579.2	0.0	0.0	0.0	105,008.1	0.0	0.0	16,571.1	0.0
Appalachian Regional Commission	390.0	0.0	0.0	0.0	0.0	0.0	0.0	390.0	0.0
Environmental Protection Agency	479,079.0	11,281.4	59,141.7	174,889.8	218,629.8	12,859.2	0.0	2,277.1	0.0
Federal Communications Commission	3,883.4	210.0	1,316.5	0.0	0.0	900.0	0.0	1,456.9	0.0
Federal Trade Commission	1,907.2	0.0	0.0	0.0	1,907.2	0.0	0.0	0.0	0.0
Library of Congress	586.3	0.0	0.0	0.0	0.0	586.3	0.0	0.0	0.0
National Aeronautics and Space Administration	1,636,504.8	28,439.8	614,449.1	374,304.8	94,211.5	437,933.4	6,267.8	289.4	80,609.2
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,176,990.0	1,065,387.1	834,803.4	820,313.7	697,187.0	908,418.0	29,170.9	173,775.9	647,934.0
Nuclear Regulatory Commission	68,804.9	0.0	68,804.9	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	193,526.0	0.0	0.0	9,616.0	86,075.0	61,593.0	0.0	35,154.0	1,088.0
Social Security Administration	78,160.0	0.0	0.0	0.0	0.0	0.0	0.0	78,160.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	59,969,155.7	3,751,006.4	10,742,556.6	3,140,253.2	29,151,505.2	5,949,559.3	1,923,432.8	1,252,946.7	4,057,895.6
Departments									
Department of Agriculture	2,064,613.2	9,813.0	43,321.9	33,004.3	1,687,128.5	94,694.2	0.0	196,651.2	0.0
Agricultural Marketing Service	2,643.3	0.0	0.0	0.0	2,643.3	0.0	0.0	0.0	0.0
Agricultural Research Service	992,308.5	1,290.0	8,930.8	4,366.2	911,633.8	66,087.7	0.0	0.0	0.0
Economic Research Service	77,397.0	0.0	0.0	0.0	0.0	0.0	0.0	77,397.0	0.0
Foreign Agricultural Service	613.8	0.0	0.0	0.0	613.8	0.0	0.0	0.0	0.0
Forest Service	266,358.0	1,123.0	7,027.1	6,226.1	189,012.0	8,211.5	0.0	54,758.2	0.0
Grain Inspection, Packers, and Stockyards Administration	6,890.6	0.0	0.0	0.0	6,890.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	707,752.0	0.0	27,364.0	22,412.0	573,085.0	20,395.0	0.0	64,496.0	0.0
Rural Business-Cooperative Service	3,250.0	0.0	0.0	0.0	3,250.0	0.0	0.0	0.0	0.0
Department of Commerce	1,440,530.3	254,492.8	346,216.7	354,244.6	61,599.6	263,760.7	679.6	137,115.8	22,420.4
National Institute of Standards and Technology	852,893.4	244,603.5	333,076.5	113.4	18,151.5	247,674.7	0.0	339.1	8,934.7
National Oceanic and Atmospheric Administration	451,523.0	3,712.0	6,458.0	354,131.1	43,448.2	16,086.0	0.0	14,202.0	13,485.7
National Telecommunications and Information Administration	6,682.2	0.0	6,682.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	129,431.6	6,177.3	0.0	0.0	0.0	0.0	679.6	122,574.8	0.0
Department of Defense	6,768,765.1	956,204.2	3,337,561.4	329,753.4	732,826.3	961,033.9	102,874.4	73,866.8	274,644.7
Defense Advanced Research Projects Agency	1,525,784.0	401,046.3	758,230.8	16,669.2	219,337.4	80,761.7	2,339.0	0.0	47,399.6
Department of the Air Force	1,852,765.4	191,970.6	1,006,241.3	7,494.4	40,547.2	404,982.0	56,687.7	10,037.1	134,805.2
Department of the Army	1,314,251.4	178,395.1	689,939.5	42,193.2	163,136.6	169,556.7	39,193.0	7,900.0	23,937.4
Department of the Navy	1,395,337.2	112,716.5	710,890.7	258,442.0	153,511.1	91,019.6	1,522.3	40,414.2	26,820.8
Other defense agencies[a]	680,627.1	72,075.8	172,259.1	4,954.6	156,294.2	214,714.0	3,132.4	15,515.4	41,681.7
Department of Education	231,718.1	0.0	7,051.0	0.0	13,256.0	0.0	12,240.6	158,448.2	40,722.4
Department of Energy	7,988,908.9	1,060,760.5	3,072,675.7	345,562.0	105,834.9	2,609,760.1	0.0	0.0	794,315.8
Advanced Research Projects Agency—Energy	141,620.0	3,494.3	99,964.0	0.0	17,114.9	8,755.0	0.0	0.0	12,291.8
Bonneville Power Administration	14,556.0	0.0	14,556.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	67,776.8	0.0	67,776.8	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	739,014.0	0.0	739,014.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	6,600.0	0.0	0.0	6,600.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	124,218.2	0.0	89,511.2	12,074.6	0.0	22,632.4	0.0	0.0	0.0
National Nuclear Security Administration	2,596,152.8	616,673.2	1,143,742.6	18,813.4	312.0	816,585.6	0.0	0.0	26.0
Defense Programs	2,317,513.0	600,000.0	1,048,513.0	0.0	0.0	669,000.0	0.0	0.0	0.0
Nonproliferation and Verification	278,639.8	16,673.2	95,229.6	18,813.4	312.0	147,585.6	0.0	0.0	26.0
Nuclear Energy	305,918.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305,918.0
Office of Science	3,993,053.0	440,593.0	918,111.0	308,074.0	88,408.0	1,761,787.0	0.0	0.0	476,080.0
Department of Health and Human Services	30,784,742.5	195,479.1	1,625,614.8	390,573.3	24,468,928.8	229,399.1	1,662,747.7	224,302.9	1,987,696.9
Administration for Children and Families	10,010.5	0.0	0.0	0.0	0.0	0.0	0.0	10,010.5	0.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Agency for Healthcare Research and Quality	307,608.4	38,980.6	451.9	0.0	135,816.3	0.0	1,428.7	45,083.5	85,847.4
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	0.0	4,831.4	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	232,599.4	0.0	0.0	1,810.9	208,619.6	2,618.7	0.0	0.0	19,550.2
Ctrs. for Medicare and Medicaid Services	24,567.0	0.0	0.0	0.0	24,567.0	0.0	0.0	0.0	0.0
Food and Drug Administration	258,662.3	0.0	0.0	0.0	258,662.3	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,710.4	0.0	0.0	0.0	22,090.4	0.0	0.0	4,620.0	0.0
National Institutes of Health	29,901,253.0	156,498.4	1,625,162.9	383,931.0	23,819,173.2	226,780.4	1,661,319.0	146,088.8	1,882,299.3
Office of the Secretary	18,500.0	0.0	0.0	0.0	0.0	0.0	0.0	18,500.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,500.0	0.0	0.0	0.0	0.0	0.0	0.0	18,500.0	0.0
Department of Homeland Security	309,366.8	50,217.0	45,860.9	8,959.1	88,701.9	38,302.2	11,421.4	22,144.5	43,759.9
Science and Technology Directorate	302,523.8	49,477.0	41,610.9	7,440.1	88,701.9	38,302.2	11,421.4	21,810.5	43,759.9
U.S. Coast Guard	6,843.0	740.0	4,250.0	1,519.0	0.0	0.0	0.0	334.0	0.0
Department of Housing and Urban Development	57,050.7	0.0	0.0	0.0	0.0	0.0	0.0	54,240.6	2,810.1
Department of the Interior	670,894.0	528.3	17,636.8	173,130.7	230,687.1	225,066.6	0.0	23,244.2	600.2
Bureau of Ocean Energy Management[b]	38,966.2	528.3	0.0	14,448.9	20,362.6	0.0	0.0	3,626.3	0.0
Bureau of Reclamation	7,490.0	0.0	6,290.0	599.8	0.0	0.0	0.0	0.0	600.2
Bureau of Safety and Environmental Enforcement[b]	13,073.8	0.0	11,346.8	1,727.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	611,364.0	0.0	0.0	156,355.0	210,324.5	225,066.6	0.0	19,617.9	0.0
Department of Justice	10,655.5	0.0	0.0	0.0	0.0	0.0	0.0	3,374.0	7,281.5
Bureau of Prisons	3,374.0	0.0	0.0	0.0	0.0	0.0	0.0	3,374.0	0.0
Federal Bureau of Investigation	7,281.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,281.5
Department of Labor	13,260.5	0.0	0.0	0.0	0.0	0.0	0.0	9,115.5	4,145.0
Employee Benefits Security Administration	8,950.5	0.0	0.0	0.0	0.0	0.0	0.0	8,950.5	0.0
Occupational Safety and Health Administration	4,145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,145.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,020.0	0.0	0.0	0.0	0.0	0.0	0.0	2,020.0	0.0
Department of Transportation	726,331.1	58,686.0	490,319.9	33,718.8	32,249.7	0.0	32,638.7	34,230.4	44,487.7
Federal Aviation Administration	223,050.0	17,599.7	130,691.7	26,142.3	10,377.8	0.0	32,638.7	0.0	5,599.8
Federal Highway Administration	337,892.2	9,533.7	299,423.8	7,576.5	94.0	0.0	0.0	19,925.4	1,338.8
Federal Motor Carrier Safety Administration	6,494.5	0.0	0.0	0.0	76.5	0.0	0.0	0.0	6,418.0
Federal Railroad Administration	10,570.4	0.0	10,570.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	30,741.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30,741.0
National Highway Traffic Safety Administration	111,000.0	30,762.6	44,231.0	0.0	21,701.4	0.0	0.0	14,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,595.0	790.0	1,415.0	0.0	0.0	0.0	0.0	0.0	390.0
Research and Innovative Technology Administration	3,988.0	0.0	3,988.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,945.9	0.0	0.0	0.0	0.0	8,987.3	0.0	0.0	68,958.7
Bureau of Engraving and Printing	9,037.3	0.0	0.0	0.0	0.0	8,987.3	0.0	0.0	50.0
Internal Revenue Service	68,908.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68,908.7

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Veterans Affairs	556,430.1	0.0	25,473.4	0.0	468,099.9	0.0	62,856.8	0.0	0.0
Other agencies									
Agency for International Development	124,010.8	0.0	0.0	0.0	107,108.3	0.0	0.0	16,902.5	0.0
Appalachian Regional Commission	390.0	0.0	0.0	0.0	0.0	0.0	0.0	390.0	0.0
Environmental Protection Agency	487,744.0	11,485.4	60,211.4	178,053.0	222,584.1	13,091.8	0.0	2,318.3	0.0
Federal Communications Commission	4,760.3	1,350.0	844.0	0.0	0.0	1,030.0	0.0	1,536.3	0.0
Federal Trade Commission	1,942.0	0.0	0.0	0.0	1,942.0	0.0	0.0	0.0	0.0
Library of Congress	621.5	0.0	0.0	0.0	0.0	621.5	0.0	0.0	0.0
National Aeronautics and Space Administration	1,867,330.0	33,154.9	719,088.4	421,882.5	108,745.8	487,811.6	7,347.1	317.8	88,981.9
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,423,350.0	1,116,846.7	869,831.4	861,645.7	732,361.1	954,080.4	30,626.5	181,980.9	675,977.3
Nuclear Regulatory Commission	80,848.9	0.0	80,848.9	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	198,978.0	0.0	0.0	9,726.0	89,451.0	61,920.0	0.0	36,788.0	1,093.0
Social Security Administration	73,959.0	0.0	0.0	0.0	0.0	0.0	0.0	73,959.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 23. Federal obligations for research in computer sciences and mathematics, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer science and other mathematics
All agencies	3,374,346.1	2,191,689.3	891,628.1	291,028.7
Departments				
Department of Agriculture	10,050.6	1,068.0	8,982.6	0.0
Agricultural Research Service	1,325.6	0.0	1,325.6	0.0
Forest Service	1,322.0	1,068.0	254.0	0.0
National Agricultural Statistics Service	7,403.0	0.0	7,403.0	0.0
Department of Commerce	92,883.3	71,875.7	1,753.8	19,253.8
National Institute of Standards and Technology	82,599.4	68,982.5	0.2	13,616.7
National Oceanic and Atmospheric Administration	3,755.0	2,503.0	1,252.0	0.0
U.S. Census Bureau	6,528.9	390.2	501.6	5,637.1
Department of Defense	907,121.1	553,549.8	124,827.4	228,743.9
Defense Advanced Research Projects Agency	370,723.9	332,371.3	22,026.2	16,326.5
Department of the Air Force	161,939.3	78,944.8	41,560.8	41,433.7
Department of the Army	168,102.5	77,257.4	33,757.5	57,087.6
Department of the Navy	104,888.9	40,946.4	14,325.7	49,616.7
Other defense agencies[a]	101,466.5	24,029.9	13,157.1	64,279.5
Department of Energy	976,529.2	620,149.5	343,860.9	12,518.7
Advanced Research Projects Agency—Energy	4,710.6	2,537.1	2,173.5	0.0
National Nuclear Security Administration	584,132.9	570,563.8	1,050.4	12,518.7
Defense Programs	568,259.5	568,259.5	0.0	0.0
Nonproliferation and Verification	15,873.4	2,304.3	1,050.4	12,518.7
Office of Science	387,685.7	47,048.7	340,637.0	0.0
Department of Health and Human Services	198,972.4	37,422.2	155,760.4	5,789.8
Agency for Healthcare Research and Quality	43,212.0	37,422.2	0.0	5,789.8
National Institutes of Health	155,760.4	0.0	155,760.4	0.0
Department of Homeland Security	41,095.5	34,845.2	2,882.6	3,367.8
Science and Technology Directorate	39,417.5	33,167.2	2,882.6	3,367.8
U.S. Coast Guard	1,678.0	1,678.0	0.0	0.0
Department of the Interior	164.6	0.0	0.0	164.6
National Park Service	164.6	0.0	0.0	164.6
Department of Justice	5,529.6	5,529.6	0.0	0.0
Office of Justice Programs	5,529.6	5,529.6	0.0	0.0
Department of Transportation	40,621.9	23,066.6	12,083.6	5,471.7
Federal Aviation Administration	19,203.1	7,119.5	12,083.6	0.0
Federal Highway Administration	7,380.8	3,791.1	0.0	3,589.7
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,882.0	0.0	0.0	1,882.0
Other agencies				
Environmental Protection Agency	11,582.6	6,022.7	4,642.2	917.8
Federal Communications Commission	135.0	135.0	0.0	0.0
National Aeronautics and Space Administration	28,206.9	12,219.0	1,187.4	14,800.5
National Archives and Records Administration	2,932.5	2,932.5	0.0	0.0
National Science Foundation	1,058,520.9	822,873.5	235,647.4	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	10,057,180.2	845,131.0	410,086.9	474,540.1	617,089.0	1,235,460.0	309,790.5	1,621,251.1	4,543,831.6
Departments									
Department of Agriculture	42,871.4	0.0	0.0	4,768.6	1,427.6	815.8	1,019.7	0.0	34,839.8
Agricultural Research Service	9,177.3	0.0	0.0	4,588.7	1,427.6	815.8	1,019.7	0.0	1,325.6
Forest Service	7,558.1	0.0	0.0	180.0	0.0	0.0	0.0	0.0	7,378.2
National Institute of Food and Agriculture	26,136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,136.0
Department of Commerce	194,607.6	0.0	0.0	2,335.2	37,232.2	68,811.3	3,180.6	49,273.9	33,774.5
National Institute of Standards and Technology	181,075.8	0.0	0.0	2,335.2	34,013.2	58,498.5	3,180.6	49,273.9	33,774.5
National Oceanic and Atmospheric Administration	5,723.0	0.0	0.0	0.0	3,219.0	2,504.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,808.8	0.0	0.0	0.0	0.0	7,808.8	0.0	0.0	0.0
Department of Defense	3,344,698.6	456,849.2	142,226.6	144,084.4	52,926.4	896,441.2	257,555.9	433,485.7	961,129.1
Defense Advanced Research Projects Agency	685,747.2	33,479.2	176.8	0.0	0.0	138,446.4	1,867.3	73,732.7	438,044.8
Department of the Air Force	929,076.5	290,886.2	139,293.7	3,036.6	0.0	139,403.0	30,202.5	165,354.9	160,899.6
Department of the Army	726,219.1	69,232.4	0.0	24,193.4	42,254.0	257,562.1	147,218.9	79,950.9	105,807.4
Department of the Navy	762,646.4	56,567.3	2,756.1	75,815.6	4,036.4	260,073.1	63,459.9	110,993.7	188,944.3
Other defense agencies[a]	241,009.3	6,684.2	0.0	41,038.9	6,636.0	100,956.6	14,807.3	3,453.4	67,433.0
Department of Education	7,032.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,032.5
Department of Energy	2,762,613.6	0.0	94,467.6	141,053.9	94,755.4	161,992.5	17,937.8	930,544.1	1,321,862.4
Advanced Research Projects Agency—Energy	84,094.0	0.0	0.0	6,805.7	0.0	33,866.1	16,146.3	24,489.4	2,786.5
Bonneville Power Administration	5,282.1	0.0	0.0	0.0	1,188.5	2,641.0	1,188.5	0.0	264.1
Electricity Delivery and Energy Reliability	61,778.0	0.0	0.0	0.0	0.0	61,778.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	465,900.0	0.0	0.0	0.0	92,482.6	61,405.1	540.6	606.4	310,865.3
Fossil Energy	134,887.5	0.0	0.0	133,803.1	1,084.3	0.0	0.0	0.0	0.0
National Nuclear Security Administration	881,695.0	0.0	94,467.6	445.0	0.0	2,302.3	62.5	103,283.5	681,134.1
Defense Programs	771,749.7	0.0	0.0	0.0	0.0	0.0	0.0	93,270.5	678,479.1
Nonproliferation and Verification	109,945.3	0.0	94,467.6	445.0	0.0	2,302.3	62.5	10,013.0	2,655.0
Nuclear Energy	326,812.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326,812.3
Office of Science	802,164.8	0.0	0.0	0.0	0.0	0.0	0.0	802,164.8	0.0
Department of Health and Human Services	1,617,999.8	0.0	0.0	0.0	0.0	0.0	294.7	40,869.9	1,576,835.2
Agency for Healthcare Research and Quality	500.9	0.0	0.0	0.0	0.0	0.0	294.7	134.7	71.5
National Institutes of Health	1,617,498.8	0.0	0.0	0.0	0.0	0.0	0.0	40,735.2	1,576,763.6
Department of Homeland Security	35,079.7	0.0	0.0	4,667.7	5,518.1	4,030.8	447.0	339.7	20,076.6
Science and Technology Directorate	33,150.7	0.0	0.0	4,667.7	5,118.1	3,059.8	0.0	228.7	20,076.6
U.S. Coast Guard	1,929.0	0.0	0.0	0.0	400.0	971.0	447.0	111.0	0.0
Department of Housing and Urban Development	1,133.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,133.7
Department of the Interior	16,373.7	0.0	0.0	4,495.7	3,009.6	687.9	2,156.0	1,320.5	4,704.0
Bureau of Ocean Energy Management, Regulation and Enforcement	9,236.8	0.0	0.0	2,518.0	0.0	0.0	1,210.2	804.6	4,704.0

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Bureau of Reclamation	7,137.0	0.0	0.0	1,977.7	3,009.6	687.9	945.9	515.9	0.0
Department of Transportation	416,566.6	0.0	0.0	0.0	249,605.9	0.0	11,908.1	23,105.6	131,947.0
Federal Aviation Administration	122,202.5	0.0	0.0	0.0	73,911.9	0.0	0.0	23,105.6	25,185.0
Federal Highway Administration	257,697.7	0.0	0.0	0.0	174,954.2	0.0	0.0	0.0	82,743.4
Federal Railroad Administration	20,336.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,336.4
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,479.4	0.0	0.0	0.0	739.7	0.0	493.1	0.0	246.6
Research and Innovative Technology Administration	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,435.7
Department of the Treasury	987.3	0.0	0.0	0.0	0.0	0.0	0.0	248.5	738.8
U.S. Mint	987.3	0.0	0.0	0.0	0.0	0.0	0.0	248.5	738.8
Department of Veterans Affairs	26,342.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,342.8
Other agencies									
Environmental Protection Agency	60,564.5	0.0	0.0	22,450.3	2,401.3	0.0	683.1	517.5	34,512.3
Federal Communications Commission	1,542.0	0.0	0.0	0.0	0.0	1,402.0	0.0	0.0	140.0
National Aeronautics and Space Administration	612,732.2	388,281.8	173,392.7	1,229.5	106.2	8,834.8	6,052.0	6,538.9	28,296.2
National Science Foundation	832,237.8	0.0	0.0	149,454.8	170,106.4	92,443.8	8,555.4	135,006.9	276,670.5
Nuclear Regulatory Commission	83,796.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83,796.3

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 25. Federal obligations for research in environmental sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	3,207,186.1	953,897.6	597,839.2	723,704.6	931,744.7
Departments					
Department of Agriculture	31,318.1	28,923.2	102.0	0.0	2,292.9
Agricultural Research Service	4,486.7	4,384.7	102.0	0.0	0.0
Forest Service	6,592.4	4,299.5	0.0	0.0	2,292.9
National Institute of Food and Agriculture	20,239.0	20,239.0	0.0	0.0	0.0
Department of Commerce	349,784.9	147,970.0	379.9	131,842.0	69,593.0
National Institute of Standards and Technology	111.9	0.0	111.9	0.0	0.0
National Oceanic and Atmospheric Administration	349,673.0	147,970.0	268.0	131,842.0	69,593.0
Department of Defense	281,960.2	42,563.3	10,599.0	189,329.1	39,468.8
Defense Advanced Research Projects Agency	13,337.1	8,586.8	0.0	4,750.2	0.0
Department of the Air Force	8,145.8	3,482.3	2,429.3	0.0	2,234.1
Department of the Army	46,216.1	11,366.9	5,515.0	0.0	29,334.1
Department of the Navy	203,197.4	16,300.4	245.1	178,751.3	7,900.6
Other defense agencies[a]	11,063.9	2,826.8	2,409.5	5,827.5	0.0
Department of Energy	327,088.8	189,588.2	97,772.2	0.0	39,728.4
Environmental Management	22,265.0	0.0	0.0	0.0	22,265.0
Fossil Energy	17,113.4	0.0	0.0	0.0	17,113.4
National Nuclear Security Administration	14,830.9	3,107.2	11,373.7	0.0	350.0
Nonproliferation and Verification	14,830.9	3,107.2	11,373.7	0.0	350.0
Office of Science	272,879.5	186,481.0	86,398.4	0.0	0.0
Department of Health and Human Services	474,822.9	0.0	0.0	0.0	474,822.9
Agency for Toxic Substances and Disease Registry	5,099.7	0.0	0.0	0.0	5,099.7
Ctrs. for Disease Control and Prevention	87,602.7	0.0	0.0	0.0	87,602.7
National Institutes of Health	382,120.4	0.0	0.0	0.0	382,120.4
Department of Homeland Security	8,700.4	0.0	0.0	2,962.4	5,737.9
Science and Technology Directorate	5,927.4	0.0	0.0	2,962.4	2,964.9
U.S. Coast Guard	2,773.0	0.0	0.0	0.0	2,773.0
Department of the Interior	345,572.5	1,835.5	210,268.9	2,166.7	131,301.5
Bureau of Ocean Energy Management, Regulation and Enforcement	14,116.3	640.7	11,318.1	2,157.6	0.0
National Park Service	3,943.2	1,194.8	499.9	9.1	2,239.5
U.S. Geological Survey	327,513.0	0.0	198,451.0	0.0	129,062.0
Department of Transportation	31,136.7	25,153.9	0.0	2,393.1	3,589.7
Federal Aviation Administration	24,793.3	24,793.3	0.0	0.0	0.0
Federal Highway Administration	6,343.4	360.6	0.0	2,393.1	3,589.7
Other agencies					
Environmental Protection Agency	179,134.9	58,197.8	3,429.8	21,276.5	96,230.8
National Aeronautics and Space Administration	353,903.7	225,346.9	67,986.1	34,811.5	25,759.2
National Archives and Records Administration	50.0	0.0	0.0	0.0	50.0
National Science Foundation	814,118.0	234,151.7	198,502.3	338,294.2	43,169.7
Smithsonian Institution	9,595.0	167.0	8,799.0	629.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	29,408,600.7	1,084,952.9	15,178,300.6	854,879.8	10,161,101.8	2,129,365.5
Departments						
Department of Agriculture	1,742,215.1	1,029,666.6	263,210.3	429,252.9	19,769.1	316.3
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	936,799.7	727,760.9	65,260.9	127,156.8	16,621.1	0.0
Foreign Agricultural Service	613.8	613.8	0.0	0.0	0.0	0.0
Forest Service	199,538.3	41,669.6	15,780.4	141,772.1	0.0	316.3
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	595,945.0	250,304.0	182,169.0	160,324.0	3,148.0	0.0
Rural Business-Cooperative Service	484.4	484.4	0.0	0.0	0.0	0.0
Department of Commerce	59,090.5	4,829.0	26,602.5	12,348.0	2,951.0	12,360.0
National Institute of Standards and Technology	14,827.5	0.0	14,827.5	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	44,263.0	4,829.0	11,775.0	12,348.0	2,951.0	12,360.0
Department of Defense	807,547.9	2,826.8	199,913.0	15,904.6	509,969.3	78,934.2
Defense Advanced Research Projects Agency	197,421.2	0.0	73,944.9	0.0	123,476.3	0.0
Department of the Air Force	45,555.1	0.0	10,865.6	0.0	0.0	34,689.5
Department of the Army	280,938.8	0.0	25,988.5	0.0	245,340.0	9,610.3
Department of the Navy	110,307.2	0.0	40,460.8	15,904.6	20,344.7	33,597.0
Other defense agencies[b]	173,325.6	2,826.8	48,653.2	0.0	120,808.2	1,037.4
Department of Education	13,221.1	0.0	0.0	0.0	0.0	13,221.1
Department of Energy	408,471.2	34,207.0	374,264.2	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	34,207.0	34,207.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	376.3	0.0	376.3	0.0	0.0	0.0
National Nuclear Security Administration	485.0	0.0	485.0	0.0	0.0	0.0
Nonproliferation and Verification	485.0	0.0	485.0	0.0	0.0	0.0
Office of Science	373,402.8	0.0	373,402.8	0.0	0.0	0.0
Department of Health and Human Services	24,353,988.9	0.0	13,401,970.9	0.0	8,994,749.5	1,957,268.4
Agency for Healthcare Research and Quality	150,559.3	0.0	49.0	0.0	149,133.8	1,376.5
Ctrs. for Disease Control and Prevention	213,870.0	0.0	79,008.4	0.0	30,607.9	104,253.7
Ctrs. for Medicare and Medicaid Services	35,424.0	0.0	0.0	0.0	0.0	35,424.0
Food and Drug Administration	225,202.2	0.0	225,202.2	0.0	0.0	0.0
Health Resources and Services Administration	22,088.8	0.0	0.0	0.0	22,088.8	0.0
National Institutes of Health	23,706,844.6	0.0	13,097,711.3	0.0	8,792,919.1	1,816,214.2
Department of Homeland Security	70,667.4	12,093.0	47,136.2	0.0	0.0	11,438.2
Science and Technology Directorate	70,667.4	12,093.0	47,136.2	0.0	0.0	11,438.2
Department of the Interior	209,056.1	9.1	106,051.6	100,661.7	0.0	2,333.7
Bureau of Ocean Energy Management, Regulation and Enforcement	19,592.8	0.0	0.0	19,592.8	0.0	0.0
Bureau of Reclamation	687.9	0.0	0.0	687.9	0.0	0.0
National Park Service	3,594.0	9.1	1,819.6	1,692.7	0.0	72.7
U.S. Geological Survey	185,181.5	0.0	104,232.1	78,688.4	0.0	2,261.0
Department of Justice	14,473.2	0.0	9,622.9	0.0	0.0	4,850.4
Office of Justice Programs	14,473.2	0.0	9,622.9	0.0	0.0	4,850.4
Department of Transportation	45,639.2	0.0	648.7	0.0	9,118.6	35,872.0
Federal Aviation Administration	9,118.6	0.0	0.0	0.0	9,118.6	0.0
Federal Highway Administration	648.7	0.0	648.7	0.0	0.0	0.0
National Highway Traffic Safety Administration	35,872.0	0.0	0.0	0.0	0.0	35,872.0
Department of Veterans Affairs	484,075.4	0.0	0.0	0.0	484,075.4	0.0
Other agencies						
Agency for International Development	102,949.2	0.0	0.0	0.0	102,949.2	0.0
Environmental Protection Agency	224,572.9	869.0	156,398.7	63,111.9	358.3	3,835.1

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
National Aeronautics and Space Administration	92,140.7	452.4	42,045.2	3,545.5	37,161.4	8,936.3
National Science Foundation	691,896.9	0.0	508,000.6	183,896.3	0.0	0.0
Smithsonian Institution	88,595.0	0.0	42,436.0	46,159.0	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 27. Federal obligations for research in physical sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	5,426,594.6	555,365.7	1,106,345.5	3,268,796.6	496,086.8
Departments					
Department of Agriculture	96,033.1	0.0	92,872.0	3,161.1	0.0
Agricultural Research Service	67,912.1	0.0	64,751.0	3,161.1	0.0
Forest Service	8,671.9	0.0	8,671.9	0.0	0.0
National Institute of Food and Agriculture	19,449.0	0.0	19,449.0	0.0	0.0
Department of Commerce	201,608.6	0.0	47,778.6	153,245.4	584.6
National Institute of Standards and Technology	185,335.6	0.0	46,526.6	138,224.4	584.6
National Oceanic and Atmospheric Administration	16,273.0	0.0	1,252.0	15,021.0	0.0
Department of Defense	852,508.2	10,314.6	178,226.8	481,833.8	182,133.0
Defense Advanced Research Projects Agency	69,147.1	0.0	11,161.2	22,629.2	35,356.7
Department of the Air Force	351,857.5	9,109.9	52,934.2	253,293.6	36,519.7
Department of the Army	194,234.8	0.0	55,891.0	75,863.5	62,480.2
Department of the Navy	59,772.0	1,204.7	19,480.2	27,698.7	11,388.4
Other defense agencies[a]	177,496.8	0.0	38,760.1	102,348.8	36,387.9
Department of Energy	2,586,624.7	320.0	284,119.3	2,242,414.2	59,771.2
Advanced Research Projects Agency—Energy	4,776.6	0.0	4,776.6	0.0	0.0
Energy Efficiency and Renewable Energy	1,223.7	0.0	1,223.7	0.0	0.0
Fossil Energy	32,764.2	0.0	32,764.2	0.0	0.0
National Nuclear Security Administration	769,059.5	320.0	20,761.2	688,207.2	59,771.2
Defense Programs	634,720.8	0.0	0.0	618,521.2	16,199.6
Nonproliferation and Verification	134,338.6	320.0	20,761.2	69,685.9	43,571.6
Office of Science	1,778,800.8	0.0	224,593.7	1,554,207.1	0.0
Department of Health and Human Services	225,710.9	0.0	217,131.1	0.0	8,579.8
National Institutes of Health	225,710.9	0.0	217,131.1	0.0	8,579.8
Department of Homeland Security	30,514.7	0.0	23,838.9	0.0	6,675.8
Science and Technology Directorate	30,514.7	0.0	23,838.9	0.0	6,675.8
Department of the Interior	37,285.3	0.0	310.8	158.7	36,815.7
National Park Service	469.6	0.0	310.8	158.7	0.0
U.S. Geological Survey	36,815.7	0.0	0.0	0.0	36,815.7
Department of Justice	7,354.2	0.0	2,127.5	0.0	5,226.7
Office of Justice Programs	7,354.2	0.0	2,127.5	0.0	5,226.7
Department of Transportation	706.6	0.0	706.6	0.0	0.0
Federal Aviation Administration	706.6	0.0	706.6	0.0	0.0
Department of the Treasury	5,174.6	0.0	0.0	0.0	5,174.6
Bureau of Engraving and Printing	5,174.6	0.0	0.0	0.0	5,174.6
Other agencies					
Environmental Protection Agency	13,204.7	0.0	11,539.4	0.0	1,665.3
Federal Communications Commission	600.0	0.0	0.0	600.0	0.0
Library of Congress	884.3	0.0	884.3	0.0	0.0
National Aeronautics and Space Administration	407,135.1	256,436.5	17,555.9	114,754.2	18,388.5
National Archives and Records Administration	70.0	0.0	50.0	20.0	0.0
National Science Foundation	901,614.7	233,637.7	227,860.2	269,045.1	171,071.6
Smithsonian Institution	59,565.0	54,657.0	1,344.0	3,564.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 28. Federal obligations for research in psychology, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	1,886,842.8	16,371.8	54,487.9	1,815,983.1
Departments				
Department of Commerce	800.8	0.0	0.0	800.8
U.S. Census Bureau	800.8	0.0	0.0	800.8
Department of Defense	80,159.8	8,094.6	7,939.1	64,126.2
Defense Advanced Research Projects Agency	1,714.9	0.0	0.0	1,714.9
Department of the Air Force	31,545.4	2,776.2	2,825.9	25,943.4
Department of the Army	34,101.2	0.0	0.0	34,101.2
Department of the Navy	3,527.9	2,491.6	1,036.4	0.0
Other defense agencies[a]	9,270.4	2,826.8	4,076.8	2,366.7
Department of Education	12,208.4	0.0	0.0	12,208.4
Department of Health and Human Services	1,656,769.4	0.0	3,185.0	1,653,584.4
Agency for Healthcare Research and Quality	1,583.8	0.0	1,483.8	100.0
Ctrs. for Disease Control and Prevention	1,701.2	0.0	1,701.2	0.0
National Institutes of Health	1,653,484.4	0.0	0.0	1,653,484.4
Department of Homeland Security	9,807.2	0.0	5,301.5	4,505.7
Science and Technology Directorate	9,099.2	0.0	4,593.5	4,505.7
U.S. Coast Guard	708.0	0.0	708.0	0.0
Department of Transportation	26,872.5	0.0	26,872.5	0.0
Federal Aviation Administration	26,872.5	0.0	26,872.5	0.0
Department of Veterans Affairs	65,002.0	0.0	0.0	65,002.0
Other agencies				
National Aeronautics and Space Administration	6,264.6	86.2	4,475.5	1,702.8
National Science Foundation	28,958.0	8,191.0	6,714.3	14,052.8

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	1,262,407.8	26,126.5	398,569.7	11,969.2	132,533.3	693,209.1
Departments						
Department of Agriculture	202,873.9	68.0	171,306.2	0.0	26,944.2	4,555.4
Economic Research Service	81,125.9	0.0	81,125.9	0.0	0.0	0.0
Forest Service	58,235.0	68.0	44,431.3	0.0	9,180.2	4,555.4
National Institute of Food and Agriculture	62,313.0	0.0	44,549.0	0.0	17,764.0	0.0
Rural Business-Cooperative Service	1,200.0	0.0	1,200.0	0.0	0.0	0.0
Department of Commerce	19,416.3	0.0	1,924.1	1,073.0	982.9	15,436.3
Economic Development Administration	650.0	0.0	0.0	0.0	0.0	650.0
National Institute of Standards and Technology	94.0	0.0	94.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	15,207.0	0.0	1,635.0	1,073.0	537.0	11,962.0
U.S. Census Bureau	3,465.3	0.0	195.1	0.0	445.9	2,824.3
Department of Defense	91,888.0	0.0	0.0	0.0	10,973.5	80,914.5
Defense Advanced Research Projects Agency	45,913.6	0.0	0.0	0.0	0.0	45,913.6
Department of the Air Force	12,950.9	0.0	0.0	0.0	2,359.3	10,591.6
Department of the Army	7,636.4	0.0	0.0	0.0	0.0	7,636.4
Department of the Navy	19,836.5	0.0	0.0	0.0	4,800.2	15,036.3
Other defense agencies[a]	5,550.6	0.0	0.0	0.0	3,814.0	1,736.6
Department of Education	142,934.8	0.0	0.0	0.0	0.0	142,934.8
Department of Health and Human Services	229,467.0	40.5	36,876.8	25.4	984.3	191,540.0
Administration for Children and Families	9,603.0	0.0	0.0	0.0	0.0	9,603.0
Agency for Healthcare Research and Quality	49,977.3	40.5	36,876.8	25.4	984.3	12,050.4
Health Resources and Services Administration	4,620.0	0.0	0.0	0.0	0.0	4,620.0
National Institutes of Health	145,399.9	0.0	0.0	0.0	0.0	145,399.9
Office of the Secretary	19,866.8	0.0	0.0	0.0	0.0	19,866.8
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	0.0	0.0	0.0	0.0	19,866.8
Department of Homeland Security	17,376.0	0.0	0.0	0.0	1,063.3	16,312.7
Science and Technology Directorate	17,376.0	0.0	0.0	0.0	1,063.3	16,312.7
Department of Housing and Urban Development	47,318.5	0.0	33,854.6	0.0	5,258.6	8,205.3
Department of the Interior	20,135.2	0.0	88.0	0.0	2,208.1	17,839.1
Bureau of Ocean Energy Management, Regulation and Enforcement	2,453.4	0.0	88.0	0.0	2,208.1	157.3
U.S. Geological Survey	17,681.8	0.0	0.0	0.0	0.0	17,681.8
Department of Justice	49,043.0	0.0	0.0	0.0	20,533.6	28,509.5
Bureau of Prisons	3,463.0	0.0	0.0	0.0	0.0	3,463.0
Office of Justice Programs	45,580.0	0.0	0.0	0.0	20,533.6	25,046.5
Department of Labor	48,708.8	0.0	48,708.8	0.0	0.0	0.0
Employee Benefits Security Administration	48,543.8	0.0	48,543.8	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	3,258.2	0.0	521.3	553.9	228.1	1,954.9
Department of Transportation	35,997.9	0.0	2,820.6	70.9	71.9	33,034.5
Federal Highway Administration	24,440.9	0.0	2,820.6	70.9	71.9	21,477.5
National Highway Traffic Safety Administration	11,557.0	0.0	0.0	0.0	0.0	11,557.0
Department of the Treasury	70,815.4	0.0	70,815.4	0.0	0.0	0.0
Internal Revenue Service	70,815.4	0.0	70,815.4	0.0	0.0	0.0
Other agencies						
Agency for International Development	16,246.2	0.0	0.0	0.0	0.0	16,246.2
Appalachian Regional Commission	389.1	0.0	389.1	0.0	0.0	0.0
Environmental Protection Agency	2,330.3	0.0	2,330.3	0.0	0.0	0.0
Federal Communications Commission	1,383.6	0.0	1,383.6	0.0	0.0	0.0

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Federal Trade Commission	2,728.8	0.0	2,728.8	0.0	0.0	0.0
National Aeronautics and Space Administration	263.6	0.0	0.0	0.0	95.2	168.4
National Science Foundation	172,756.3	20,172.1	24,822.2	10,246.0	9,375.6	108,140.4
Smithsonian Institution	34,080.0	5,846.0	0.0	0.0	817.0	27,417.0
Social Security Administration	52,997.0	0.0	0.0	0.0	52,997.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2011–13.

TABLE 30. Federal obligations for basic research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	29,313,593.3	4,869,782.6	1,726,454.8	482,999.0	15,771,389.9	2,010,087.2	3,066,502.6	1,101,858.8	75,777.2	208,741.3
Departments										
Department of Agriculture	963,329.5	637,285.6	171.4	0.0	311,593.7	0.0	9,881.3	0.0	3,526.2	871.3
Agricultural Research Service	566,500.8	521,622.9	0.0	0.0	38,113.1	0.0	5,852.4	0.0	118.2	794.2
Economic Research Service	7,603.9	7,603.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	171.9	65.2	0.0	0.0	90.3	0.0	16.3	0.0	0.0	0.0
Forest Service	89,920.8	76,220.4	171.4	0.0	10,086.2	0.0	1,341.6	0.0	2,024.1	77.1
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,316.6	3,316.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	289,125.0	21,766.0	0.0	0.0	263,304.0	0.0	2,671.0	0.0	1,384.0	0.0
Department of Commerce	165,543.6	141,627.7	6,999.6	0.0	16,128.5	0.0	687.9	0.0	50.0	50.0
Economic Development Administration	442.0	17.0	0.0	0.0	0.0	0.0	425.0	0.0	0.0	0.0
National Institute of Standards and Technology	165,101.7	141,610.7	6,999.6	0.0	16,128.5	0.0	262.9	0.0	50.0	50.0
Department of Defense	1,885,363.5	470,088.6	230,158.1	5,502.3	1,084,054.7	2,341.2	48,821.3	3,017.0	368.8	41,011.4
Defense Advanced Research Projects Agency	254,205.0	17,456.4	24,855.6	2,982.6	190,928.3	1,841.1	5,217.4	330.0	0.0	10,593.5
Department of the Air Force	470,732.1	69,726.0	89,826.1	49.4	291,484.5	0.0	0.0	0.0	0.0	19,646.2
Department of the Army	415,049.7	133,177.9	76,423.1	0.0	191,928.5	150.0	12,489.3	194.0	0.0	687.0
Department of the Navy	546,998.0	180,898.0	29,523.6	853.6	297,926.7	0.0	28,538.4	555.0	368.8	8,333.8
Other defense agencies[b]	198,378.6	68,830.3	9,529.7	1,616.7	111,786.7	350.1	2,576.2	1,938.0	0.0	1,750.9
Department of Education	7,483.0	322.7	0.0	0.0	5,544.5	0.0	1,615.9	0.0	0.0	0.0
Department of Energy	3,961,703.2	57,102.6	239,975.9	221,350.9	724,781.2	1,606,649.6	50,494.5	1,057,779.1	97.2	3,472.2
Bonneville Power Administration	3,961.5	398.0	2,166.3	0.0	300.0	0.0	1,000.0	0.0	97.2	0.0
Electricity Delivery and Energy Reliability	6,446.4	204.8	1,026.5	1,461.5	406.8	211.1	1,948.2	1,187.6	0.0	0.0
Energy Efficiency and Renewable Energy	1,600.0	625.3	0.0	291.3	164.4	147.8	45.4	325.8	0.0	0.0
Fossil Energy	4,106.0	0.1	0.0	0.0	4,105.9	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	42,071.1	4,050.0	3,725.0	21,767.9	2,473.4	3,048.3	657.0	6,349.5	0.0	0.0
Nonproliferation and Verification	42,071.1	4,050.0	3,725.0	21,767.9	2,473.4	3,048.3	657.0	6,349.5	0.0	0.0
Office of Science	3,903,518.2	51,824.4	233,058.1	197,830.2	717,330.6	1,603,242.5	46,843.9	1,049,916.2	0.0	3,472.2
Department of Health and Human Services	16,066,282.8	2,787,272.5	854,110.9	250,097.1	9,439,257.6	23,203.3	2,516,134.2	12,378.7	49,948.5	133,880.0
Ctrs. for Disease Control and Prevention	64,813.4	19,820.4	1,224.3	0.0	26,558.3	0.0	8,895.5	0.0	3,975.0	4,339.9
Health Resources and Services Administration	2,563.4	2,563.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,998,906.0	2,764,888.7	852,886.6	250,097.1	9,412,699.3	23,203.3	2,507,238.8	12,378.7	45,973.5	129,540.1
Department of Homeland Security	113,763.6	23,181.6	9,838.5	5,641.7	48,648.8	3,837.2	2,345.0	19,901.5	0.0	369.4
Science and Technology Directorate	113,763.6	23,181.6	9,838.5	5,641.7	48,648.8	3,837.2	2,345.0	19,901.5	0.0	369.4
Department of the Interior	48,939.0	41,224.8	110.9	0.0	5,906.4	0.0	587.4	0.0	1,109.5	0.0

TABLE 30. Federal obligations for basic research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
U.S. Geological Survey	48,939.0	41,224.8	110.9	0.0	5,906.4	0.0	587.4	0.0	1,109.5	0.0
Department of Justice	17,524.1	610.0	2,397.7	0.0	9,676.6	0.0	3,672.2	0.0	1,167.5	0.0
Office of Justice Programs	17,524.1	610.0	2,397.7	0.0	9,676.6	0.0	3,672.2	0.0	1,167.5	0.0
Department of Transportation	4,357.9	4,139.8	0.0	0.0	0.0	0.0	218.1	0.0	0.0	0.0
Federal Highway Administration	4,357.9	4,139.8	0.0	0.0	0.0	0.0	218.1	0.0	0.0	0.0
Department of the Treasury	237.9	237.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	237.9	237.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	250,557.9	250,557.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	87,997.4	45,405.0	28,497.5	0.0	14,094.9	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	856,837.8	135,355.7	159,096.5	406.9	314,232.0	171,669.2	73,638.1	891.6	177.6	1,370.2
National Science Foundation	4,690,620.0	82,318.4	195,098.0	0.0	3,797,470.9	202,386.7	358,406.5	7,890.8	19,331.8	27,716.8
Smithsonian Institution	193,052.0	193,052.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.
[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 31. Preliminary federal obligations for basic research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	29,426,161.6	5,034,988.1	1,647,562.5	498,289.8	15,775,130.0	2,026,273.9	3,064,089.3	1,074,855.6	82,752.1	222,220.2
Departments										
Department of Agriculture	1,006,720.1	635,947.6	171.4	0.0	358,013.5	0.0	8,418.2	0.0	3,496.7	672.7
Agricultural Research Service	550,746.0	515,522.6	0.0	0.0	30,149.9	0.0	4,389.3	0.0	88.6	595.6
Economic Research Service	7,000.0	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	171.9	65.2	0.0	0.0	90.3	0.0	16.3	0.0	0.0	0.0
Forest Service	97,082.6	83,382.2	171.4	0.0	10,086.2	0.0	1,341.6	0.0	2,024.1	77.1
Grain Inspection, Packers, and Stockyards Administration	6,290.6	6,290.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,300.0	3,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	342,129.0	20,387.0	0.0	0.0	317,687.0	0.0	2,671.0	0.0	1,384.0	0.0
Department of Commerce	176,664.8	146,511.5	7,099.6	0.0	19,946.0	0.0	1,565.4	1,442.3	50.0	50.0
Economic Development Administration	1,500.0	57.7	0.0	0.0	0.0	0.0	0.0	1,442.3	0.0	0.0
National Institute of Standards and Technology	175,164.8	146,453.8	7,099.6	0.0	19,946.0	0.0	1,565.4	0.0	50.0	50.0
Department of Defense	1,971,268.1	463,124.6	252,991.3	9,651.6	1,108,430.1	3,378.2	49,199.5	18,454.2	9,034.9	57,003.8
Defense Advanced Research Projects Agency	347,086.0	23,834.6	33,937.3	4,072.4	260,689.4	2,513.8	7,123.7	450.6	0.0	14,464.2
Department of the Air Force	506,394.7	62,188.8	103,680.6	2,900.1	276,012.3	0.0	5,091.1	14,693.5	8,658.9	33,169.5
Department of the Army	414,788.1	149,244.7	78,443.5	66.7	179,682.8	198.5	6,075.7	739.0	0.0	337.2
Department of the Navy	557,610.0	184,407.5	30,096.4	870.2	303,706.6	0.0	29,092.0	565.8	376.0	8,495.5
Other defense agencies[b]	145,389.4	43,449.0	6,833.5	1,742.3	88,339.1	665.9	1,816.9	2,005.4	0.0	537.3
Department of Education	6,762.4	315.9	0.0	0.0	5,003.6	0.0	1,442.9	0.0	0.0	0.0
Department of Energy	3,810,297.8	216,424.9	112,105.5	232,593.9	617,305.6	1,570,511.2	43,474.0	1,016,114.6	110.0	1,658.0
Bonneville Power Administration	4,600.9	692.9	3,198.0	0.0	100.0	0.0	500.0	0.0	110.0	0.0
Electricity Delivery and Energy Reliability	10,084.5	294.1	768.6	2,103.0	443.2	946.5	186.7	5,342.5	0.0	0.0
Energy Efficiency and Renewable Energy	6,758.0	2,641.1	0.0	1,230.2	694.5	624.2	192.0	1,376.1	0.0	0.0
Fossil Energy	2,965.0	*	0.0	0.0	2,965.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	50,461.4	7,502.0	5,255.9	24,076.4	3,073.2	3,707.4	404.0	6,442.6	0.0	0.0
Nonproliferation and Verification	50,461.4	7,502.0	5,255.9	24,076.4	3,073.2	3,707.4	404.0	6,442.6	0.0	0.0
Office of Science	3,735,427.9	205,294.9	102,883.1	205,184.3	610,029.6	1,565,233.2	42,191.3	1,002,953.5	0.0	1,658.0
Department of Health and Human Services	16,095,213.2	2,792,207.4	855,524.3	250,649.4	9,459,375.4	23,254.6	2,519,826.4	12,406.1	48,862.9	133,106.8
Ctrs. for Disease Control and Prevention	58,410.2	18,647.8	754.2	0.0	25,889.1	0.0	7,050.7	0.0	2,787.8	3,280.6
Health Resources and Services Administration	2,565.0	2,565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,034,238.0	2,770,994.7	854,770.1	250,649.4	9,433,486.3	23,254.6	2,512,775.7	12,406.1	46,075.0	129,826.2
Department of Homeland Security	99,144.2	20,202.6	8,574.2	4,916.7	42,397.1	3,344.1	2,043.7	17,344.0	0.0	321.9
Science and Technology Directorate	99,144.2	20,202.6	8,574.2	4,916.7	42,397.1	3,344.1	2,043.7	17,344.0	0.0	321.9

TABLE 31. Preliminary federal obligations for basic research, by agency and performer: FY 2012

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of the Interior	55,504.0	45,842.6	96.2	68.9	7,581.5	0.0	866.7	0.0	1,048.1	0.0
U.S. Geological Survey	55,504.0	45,842.6	96.2	68.9	7,581.5	0.0	866.7	0.0	1,048.1	0.0
Department of Justice	5,812.7	812.7	400.0	0.0	4,050.0	0.0	0.0	0.0	550.0	0.0
Federal Bureau of Investigation	812.7	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	5,000.0	*	400.0	0.0	4,050.0	0.0	0.0	0.0	550.0	0.0
Department of Transportation	4,729.0	4,501.6	0.0	0.0	0.0	0.0	227.4	0.0	0.0	0.0
Federal Highway Administration	4,729.0	4,501.6	0.0	0.0	0.0	0.0	227.4	0.0	0.0	0.0
Department of the Treasury	93.7	93.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	93.7	93.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	248,480.3	248,480.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	84,879.0	44,131.8	27,044.0	0.0	13,703.2	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	940,456.3	139,914.9	186,961.1	409.3	312,716.0	221,846.4	75,797.6	1,143.0	190.5	1,477.5
National Science Foundation	4,726,610.0	82,950.0	196,595.0	0.0	3,826,608.0	203,939.5	361,227.5	7,951.4	19,409.1	27,929.5
Smithsonian Institution	193,526.0	193,526.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 32. Preliminary federal obligations for basic research, by agency and performer: FY 2013

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	30,065,703.6	5,238,083.1	1,753,590.0	474,214.5	16,038,337.0	2,056,936.3	3,077,278.2	1,133,160.8	77,264.0	216,839.6
Departments										
Department of Agriculture	935,754.2	622,872.6	171.4	0.0	300,135.6	0.0	8,405.2	0.0	3,496.7	672.7
Agricultural Research Service	551,282.5	513,600.0	0.0	0.0	32,609.0	0.0	4,389.3	0.0	88.6	595.6
Economic Research Service	7,000.0	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	171.9	65.2	0.0	0.0	90.3	0.0	16.3	0.0	0.0	0.0
Forest Service	85,146.2	71,445.8	171.4	0.0	10,086.2	0.0	1,341.6	0.0	2,024.1	77.1
Grain Inspection, Packers, and Stockyards Administration	6,890.6	6,890.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,300.0	3,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	281,963.0	20,571.0	0.0	0.0	257,350.0	0.0	2,658.0	0.0	1,384.0	0.0
Department of Commerce	202,026.8	167,765.8	11,399.6	0.0	20,046.0	0.0	2,715.4	0.0	50.0	50.0
National Institute of Standards and Technology	202,026.8	167,765.8	11,399.6	0.0	20,046.0	0.0	2,715.4	0.0	50.0	50.0
Department of Defense	2,091,788.1	484,640.8	242,446.8	12,408.8	1,220,907.9	9,017.9	56,929.2	8,706.2	5,493.4	51,237.1
Defense Advanced Research Projects Agency	346,718.0	23,809.3	33,901.3	4,068.1	260,413.0	2,511.1	7,116.2	450.1	0.0	14,448.8
Department of the Air Force	518,417.7	61,940.2	77,360.7	5,401.6	322,935.9	5,964.3	8,793.5	5,051.6	5,085.8	25,884.1
Department of the Army	446,611.8	151,393.4	88,828.6	0.0	199,448.5	0.0	6,441.3	170.0	0.0	330.1
Department of the Navy	604,371.0	199,871.9	32,620.2	943.2	329,175.3	0.0	31,531.7	613.2	407.5	9,207.9
Other defense agencies[b]	175,669.6	47,626.0	9,735.9	1,995.9	108,935.3	542.5	3,046.6	2,421.3	0.0	1,366.1
Department of Education	8,322.7	314.0	0.0	0.0	6,263.7	0.0	1,745.1	0.0	0.0	0.0
Department of Energy	4,074,136.0	377,184.8	189,747.4	204,481.7	623,401.7	1,566,046.3	34,667.1	1,077,574.0	125.0	908.0
Bonneville Power Administration	9,704.0	1,591.3	6,812.7	0.0	500.0	0.0	675.0	0.0	125.0	0.0
Electricity Delivery and Energy Reliability	18,157.1	529.5	1,383.8	3,786.4	798.0	1,704.2	336.1	9,619.1	0.0	0.0
Fossil Energy	2,760.4	*	0.0	0.0	2,760.4	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	50,461.4	7,502.0	5,255.9	24,076.4	3,073.2	3,707.4	404.0	6,442.6	0.0	0.0
Nonproliferation and Verification	50,461.4	7,502.0	5,255.9	24,076.4	3,073.2	3,707.4	404.0	6,442.6	0.0	0.0
Office of Science	3,993,053.0	367,562.0	176,295.0	176,618.9	616,270.0	1,560,634.8	33,252.0	1,061,512.3	0.0	908.0
Department of Health and Human Services	16,017,958.5	2,778,628.1	851,676.1	249,742.1	9,413,183.4	23,170.4	2,510,204.1	12,361.2	46,358.2	132,634.8
Ctrs. for Disease Control and Prevention	39,194.5	15,098.6	0.0	0.0	13,843.5	0.0	6,523.8	0.0	450.0	3,278.6
Health Resources and Services Administration	2,565.0	2,565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,976,199.0	2,760,964.5	851,676.1	249,742.1	9,399,340.0	23,170.4	2,503,680.3	12,361.2	45,908.2	129,356.2
Department of Homeland Security	142,796.5	29,097.6	12,349.3	7,081.5	61,064.1	4,816.5	2,943.5	24,980.4	0.0	463.7
Science and Technology Directorate	142,796.5	29,097.6	12,349.3	7,081.5	61,064.1	4,816.5	2,943.5	24,980.4	0.0	463.7

TABLE 32. Preliminary federal obligations for basic research, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of the Interior	61,152.0	50,470.2	108.3	75.6	8,399.9	0.0	964.5	0.0	1,133.4	0.0
U.S. Geological Survey	61,152.0	50,470.2	108.3	75.6	8,399.9	0.0	964.5	0.0	1,133.4	0.0
Department of Justice	812.7	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	812.7	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	4,800.0	4,579.0	0.0	0.0	0.0	0.0	221.0	0.0	0.0	0.0
Federal Highway Administration	4,800.0	4,579.0	0.0	0.0	0.0	0.0	221.0	0.0	0.0	0.0
Department of the Treasury	194.9	194.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	194.9	194.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	242,289.0	242,289.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	86,414.2	44,930.0	27,533.1	0.0	13,951.1	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,032,970.0	148,186.4	211,634.8	424.8	351,126.8	239,646.5	79,013.1	1,186.2	218.0	1,533.4
National Science Foundation	4,965,310.0	87,139.1	206,523.3	0.0	4,019,856.7	214,238.7	379,470.0	8,352.9	20,389.3	29,339.9
Smithsonian Institution	198,978.0	198,978.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 33. Federal obligations for basic research, by detailed field of science and engineering: FYs 2011–13
(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	29,313,593.3	29,426,161.6	30,065,703.6
Computer sciences and mathematics	1,788,465.1	1,821,556.2	1,965,388.4
Computer sciences	936,447.9	NA	NA
Mathematics	741,340.1	NA	NA
Other computer sciences and mathematics	110,677.1	NA	NA
Engineering	3,167,986.1	3,255,012.4	3,422,498.1
Aeronautical engineering	153,190.4	NA	NA
Astronautical engineering	32,896.3	NA	NA
Chemical engineering	182,705.0	NA	NA
Civil engineering	149,200.0	NA	NA
Electrical engineering	281,045.7	NA	NA
Mechanical engineering	82,258.2	NA	NA
Metallurgy and materials engineering	1,077,226.8	NA	NA
Other engineering	1,209,463.7	NA	NA
Environmental sciences	1,796,442.1	1,797,362.9	1,912,094.1
Atmospheric sciences	612,468.6	NA	NA
Geological sciences	396,420.3	NA	NA
Oceanography	483,044.1	NA	NA
Other environmental sciences	304,509.1	NA	NA
Life sciences	15,373,391.2	15,157,751.4	15,148,200.4
Agricultural sciences	546,976.3	NA	NA
Biological sciences (excluding environmental biology)	8,277,103.7	NA	NA
Environmental biology	434,588.2	NA	NA
Medical sciences	5,085,503.6	NA	NA
Other life sciences	1,029,219.3	NA	NA
Physical sciences	3,814,977.8	3,885,942.7	4,009,983.4
Astronomy	498,785.2	NA	NA
Chemistry	774,349.6	NA	NA
Physics	2,275,150.1	NA	NA
Other physical sciences	266,692.8	NA	NA
Psychology	978,751.1	981,883.1	990,918.1
Biological aspects	13,366.9	NA	NA
Social aspects	16,868.3	NA	NA
Other psychological sciences	948,515.9	NA	NA
Social sciences	370,962.4	368,231.9	376,219.3
Anthropology	25,818.5	NA	NA
Economics	54,477.3	NA	NA
Political science	9,284.3	NA	NA
Sociology	35,505.6	NA	NA
Other social sciences	245,876.7	NA	NA
Other sciences nec	2,022,617.5	2,158,478.3	2,240,401.9

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 34. Federal obligations for basic research, by agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	29,313,593.3	1,788,465.1	3,167,986.1	1,796,442.1	15,373,391.2	3,814,977.8	978,751.1	370,962.4	2,022,617.5
Departments									
Department of Agriculture	963,329.5	4,110.0	18,418.7	14,095.2	832,312.0	50,793.8	0.0	43,599.8	0.0
Agricultural Research Service	566,500.8	736.5	5,098.5	2,492.6	520,444.3	37,729.0	0.0	0.0	0.0
Economic Research Service	7,603.9	0.0	0.0	0.0	0.0	0.0	0.0	7,603.9	0.0
Foreign Agricultural Service	171.9	0.0	0.0	0.0	171.9	0.0	0.0	0.0	0.0
Forest Service	89,920.8	57.0	2,884.2	3,521.5	67,045.3	5,298.9	0.0	11,113.9	0.0
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	0.0	0.0	6,690.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,316.6	3,316.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	289,125.0	0.0	10,436.0	8,081.0	237,960.0	7,766.0	0.0	24,882.0	0.0
Department of Commerce	165,543.6	14,357.9	15,432.3	0.0	8,575.8	124,947.6	0.0	535.9	1,694.1
Economic Development Administration	442.0	0.0	0.0	0.0	0.0	0.0	0.0	442.0	0.0
National Institute of Standards and Technology	165,101.7	14,357.9	15,432.3	0.0	8,575.8	124,947.6	0.0	94.0	1,694.1
Department of Defense	1,885,363.5	280,217.9	649,562.7	172,934.3	213,186.7	401,759.6	35,949.9	33,195.1	98,557.3
Defense Advanced Research Projects Agency	254,205.0	45,197.9	132,930.6	8,586.8	41,543.5	22,926.5	1,714.9	1,304.9	0.0
Department of the Air Force	470,732.1	65,593.2	137,641.2	3,331.5	20,886.5	151,116.2	12,020.1	12,950.9	67,192.5
Department of the Army	415,049.7	90,260.5	125,555.1	21,229.8	57,070.4	80,477.7	16,320.2	7,286.4	16,849.6
Department of the Navy	546,998.0	63,103.2	194,996.9	134,375.9	68,987.1	57,266.4	3,527.9	10,225.4	14,515.2
Other defense agencies[a]	198,378.6	16,063.1	58,438.9	5,410.2	24,699.2	89,972.8	2,366.7	1,427.6	0.0
Department of Education	7,483.0	0.0	0.0	0.0	0.0	0.0	0.0	7,483.0	0.0
Department of Energy	3,961,703.2	392,989.1	818,198.8	278,384.4	374,021.7	1,809,499.6	0.0	0.0	288,609.7
Bonneville Power Administration	3,961.5	0.0	3,961.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	6,446.4	0.0	6,446.4	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,600.0	0.0	0.0	0.0	376.3	1,223.7	0.0	0.0	0.0
Fossil Energy	4,106.0	0.0	0.0	0.0	0.0	4,106.0	0.0	0.0	0.0
National Nuclear Security Administration	42,071.1	5,303.4	5,626.0	5,505.0	242.5	25,369.2	0.0	0.0	25.0
Nonproliferation and Verification	42,071.1	5,303.4	5,626.0	5,505.0	242.5	25,369.2	0.0	0.0	25.0
Office of Science	3,903,518.2	387,685.7	802,164.8	272,879.5	373,402.8	1,778,800.8	0.0	0.0	288,584.7
Department of Health and Human Services	16,066,282.8	83,735.7	869,556.5	218,163.8	12,770,470.4	121,340.7	890,603.3	78,166.0	1,034,246.4
Ctrs. for Disease Control and Prevention	64,813.4	0.0	0.0	12,738.5	23,266.8	0.0	1,701.2	0.0	27,107.0
Health Resources and Services Administration	2,563.4	0.0	0.0	0.0	2,563.4	0.0	0.0	0.0	0.0
National Institutes of Health	15,998,906.0	83,735.7	869,556.5	205,425.4	12,744,640.2	121,340.7	888,902.1	78,166.0	1,007,139.4
Department of Homeland Security	113,763.6	11,476.5	10,259.7	5,927.4	48,257.0	4,322.1	4,719.5	4,315.4	24,486.0
Science and Technology Directorate	113,763.6	11,476.5	10,259.7	5,927.4	48,257.0	4,322.1	4,719.5	4,315.4	24,486.0
Department of the Interior	48,939.0	0.0	0.0	29,864.0	14,221.5	4,381.7	0.0	471.9	0.0
U.S. Geological Survey	48,939.0	0.0	0.0	29,864.0	14,221.5	4,381.7	0.0	471.9	0.0

TABLE 34. Federal obligations for basic research, by agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Justice	17,524.1	0.0	0.0	0.0	4,180.9	2,127.5	0.0	11,215.7	0.0
Office of Justice Programs	17,524.1	0.0	0.0	0.0	4,180.9	2,127.5	0.0	11,215.7	0.0
Department of Transportation	4,357.9	2,257.9	0.0	0.0	0.0	0.0	0.0	2,100.0	0.0
Federal Highway Administration	4,357.9	2,257.9	0.0	0.0	0.0	0.0	0.0	2,100.0	0.0
Department of the Treasury	237.9	0.0	0.0	0.0	0.0	237.9	0.0	0.0	0.0
Bureau of Engraving and Printing	237.9	0.0	0.0	0.0	0.0	237.9	0.0	0.0	0.0
Department of Veterans Affairs	250,557.9	0.0	7,516.7	0.0	225,502.1	0.0	17,539.1	0.0	0.0
Other agencies									
Environmental Protection Agency	87,997.4	2,989.8	3,354.4	12,872.8	65,207.9	3,572.4	0.0	0.0	0.0
National Aeronautics and Space Administration	856,837.8	8,501.0	158,517.4	243,349.9	38,012.4	337,266.8	1,508.6	263.6	69,418.2
National Science Foundation	4,690,620.0	987,829.2	617,168.8	811,255.3	690,847.7	895,163.2	28,430.8	155,535.9	504,389.0
Smithsonian Institution	193,052.0	0.0	0.0	9,595.0	88,595.0	59,565.0	0.0	34,080.0	1,217.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 35. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	29,426,161.6	1,821,556.2	3,255,012.4	1,797,362.9	15,157,751.4	3,885,942.7	981,883.1	368,231.9	2,158,478.3
Departments									
Department of Agriculture	1,006,720.1	4,066.0	20,534.8	17,837.5	865,181.2	51,620.6	0.0	47,480.0	0.0
Agricultural Research Service	550,746.0	716.0	4,956.7	2,423.3	505,970.4	36,679.7	0.0	0.0	0.0
Economic Research Service	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	7,000.0	0.0
Foreign Agricultural Service	171.9	0.0	0.0	0.0	171.9	0.0	0.0	0.0	0.0
Forest Service	97,082.6	50.0	2,966.1	3,655.3	72,728.4	5,720.9	0.0	11,962.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,290.6	0.0	0.0	0.0	6,290.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,300.0	3,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	342,129.0	0.0	12,612.0	11,759.0	280,020.0	9,220.0	0.0	28,518.0	0.0
Department of Commerce	176,664.8	16,133.3	20,492.4	0.0	9,593.8	127,130.9	0.0	1,700.0	1,671.7
Economic Development Administration	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0	0.0
National Institute of Standards and Technology	175,164.8	16,133.3	20,492.4	0.0	9,593.8	127,130.9	0.0	200.0	1,671.7
Department of Defense	1,971,268.1	334,517.5	655,128.2	158,834.3	228,762.4	430,938.5	39,206.5	37,518.2	86,362.5
Defense Advanced Research Projects Agency	347,086.0	61,712.2	181,500.6	11,724.3	56,722.5	31,303.3	2,341.5	0.0	1,781.7
Department of the Air Force	506,394.7	94,915.7	110,333.0	0.0	27,362.5	196,524.5	11,605.7	16,487.4	49,165.9
Department of the Army	414,788.1	95,446.8	123,449.3	20,933.1	54,626.5	77,333.6	18,358.3	7,029.2	17,611.2
Department of the Navy	557,610.0	67,992.7	206,782.2	125,105.2	69,092.4	58,133.4	5,232.6	8,882.7	16,388.8
Other defense agencies[a]	145,389.4	14,450.2	33,063.0	1,071.6	20,958.5	67,643.7	1,668.4	5,119.0	1,415.0
Department of Education	6,762.4	0.0	0.0	0.0	0.0	0.0	0.0	6,762.4	0.0
Department of Energy	3,810,297.8	360,564.3	871,857.0	265,982.2	84,070.5	1,794,750.5	0.0	0.0	433,073.2
Bonneville Power Administration	4,600.9	0.0	4,600.9	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	10,084.5	0.0	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	6,758.0	0.0	0.0	0.0	1,589.5	5,168.5	0.0	0.0	0.0
Fossil Energy	2,965.0	0.0	0.0	0.0	0.0	2,965.0	0.0	0.0	0.0
National Nuclear Security Administration	50,461.4	4,293.8	3,230.6	7,952.1	156.0	34,802.9	0.0	0.0	26.0
Nonproliferation and Verification	50,461.4	4,293.8	3,230.6	7,952.1	156.0	34,802.9	0.0	0.0	26.0
Office of Science	3,735,427.9	356,270.5	853,941.0	258,030.1	82,325.0	1,751,814.2	0.0	0.0	433,047.2
Department of Health and Human Services	16,095,213.2	83,920.7	871,476.8	218,142.9	12,799,480.1	123,360.9	890,865.2	78,338.6	1,029,628.1
Ctrs. for Disease Control and Prevention	58,410.2	0.0	0.0	12,263.9	24,129.6	1,752.2	0.0	0.0	20,264.5
Health Resources and Services Administration	2,565.0	0.0	0.0	0.0	2,565.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,034,238.0	83,920.7	871,476.8	205,879.0	12,772,785.5	121,608.6	890,865.2	78,338.6	1,009,363.6
Department of Homeland Security	99,144.2	10,001.7	8,941.3	5,165.7	42,055.7	3,766.7	4,113.0	3,760.9	21,339.4
Science and Technology Directorate	99,144.2	10,001.7	8,941.3	5,165.7	42,055.7	3,766.7	4,113.0	3,760.9	21,339.4
Department of the Interior	55,504.0	0.0	0.0	24,794.0	14,880.5	15,330.2	0.0	499.2	0.0
U.S. Geological Survey	55,504.0	0.0	0.0	24,794.0	14,880.5	15,330.2	0.0	499.2	0.0

TABLE 35. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Justice	5,812.7	0.0	0.0	0.0	3,250.0	1,750.0	0.0	0.0	812.7
Federal Bureau of Investigation	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	812.7
Office of Justice Programs	5,000.0	0.0	0.0	0.0	3,250.0	1,750.0	0.0	0.0	0.0
Department of Transportation	4,729.0	4,729.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	4,729.0	4,729.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	93.7	0.0	0.0	0.0	0.0	42.7	0.0	0.0	51.0
Bureau of Engraving and Printing	93.7	0.0	0.0	0.0	0.0	42.7	0.0	0.0	51.0
Department of Veterans Affairs	248,480.3	0.0	7,454.4	0.0	223,632.3	0.0	17,393.6	0.0	0.0
Other agencies									
Environmental Protection Agency	84,879.0	2,884.5	3,236.2	12,412.2	62,899.4	3,446.6	0.0	0.0	0.0
National Aeronautics and Space Administration	940,456.3	9,330.6	173,987.0	267,098.3	41,722.0	370,180.5	1,655.8	289.4	76,192.7
National Science Foundation	4,726,610.0	995,408.6	621,904.2	817,479.8	696,148.5	902,031.6	28,648.9	156,729.3	508,259.1
Smithsonian Institution	193,526.0	0.0	0.0	9,616.0	86,075.0	61,593.0	0.0	35,154.0	1,088.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	30,065,703.6	1,965,388.4	3,422,498.1	1,912,094.1	15,148,200.4	4,009,983.4	990,918.1	376,219.3	2,240,401.9
Departments									
Department of Agriculture	935,754.2	4,066.7	18,464.9	14,560.5	805,587.1	49,857.9	0.0	43,217.1	0.0
Agricultural Research Service	551,282.5	716.7	4,961.5	2,425.6	506,463.2	36,715.4	0.0	0.0	0.0
Economic Research Service	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	7,000.0	0.0
Foreign Agricultural Service	171.9	0.0	0.0	0.0	171.9	0.0	0.0	0.0	0.0
Forest Service	85,146.2	50.0	2,601.4	3,205.8	63,748.4	5,017.5	0.0	10,523.1	0.0
Grain Inspection, Packers, and Stockyards Administration	6,890.6	0.0	0.0	0.0	6,890.6	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,300.0	3,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	281,963.0	0.0	10,902.0	8,929.0	228,313.0	8,125.0	0.0	25,694.0	0.0
Department of Commerce	202,026.8	24,027.1	30,674.4	0.0	14,638.7	130,907.4	0.0	142.7	1,636.6
National Institute of Standards and Technology	202,026.8	24,027.1	30,674.4	0.0	14,638.7	130,907.4	0.0	142.7	1,636.6
Department of Defense	2,091,788.1	330,722.4	687,978.7	173,070.1	260,557.1	458,801.2	48,478.9	38,760.5	93,419.1
Defense Advanced Research Projects Agency	346,718.0	61,646.7	181,308.2	11,711.8	56,662.4	31,270.1	2,339.0	0.0	1,779.8
Department of the Air Force	518,417.7	82,365.5	139,080.5	0.0	37,620.0	174,849.0	21,691.4	10,037.1	52,774.1
Department of the Army	446,611.8	107,027.9	130,251.6	20,249.3	56,665.2	83,716.0	20,543.8	7,900.0	20,258.0
Department of the Navy	604,371.0	66,357.5	200,332.4	138,399.8	81,303.1	89,556.9	1,522.3	8,291.9	18,607.2
Other defense agencies[a]	175,669.6	13,324.8	37,006.1	2,709.2	28,306.5	79,409.2	2,382.4	12,531.4	0.0
Department of Education	8,322.7	0.0	0.0	0.0	0.0	0.0	0.0	8,322.7	0.0
Department of Energy	4,074,136.0	444,886.8	949,202.8	316,026.1	88,564.0	1,799,350.3	0.0	0.0	476,106.0
Bonneville Power Administration	9,704.0	0.0	9,704.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	18,157.1	0.0	18,157.1	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	2,760.4	0.0	0.0	0.0	0.0	2,760.4	0.0	0.0	0.0
National Nuclear Security Administration	50,461.4	4,293.8	3,230.6	7,952.1	156.0	34,802.9	0.0	0.0	26.0
Nonproliferation and Verification	50,461.4	4,293.8	3,230.6	7,952.1	156.0	34,802.9	0.0	0.0	26.0
Office of Science	3,993,053.0	440,593.0	918,111.0	308,074.0	88,408.0	1,761,787.0	0.0	0.0	476,080.0
Department of Health and Human Services	16,017,958.5	83,616.9	868,322.3	205,133.8	12,753,251.7	122,973.2	887,640.5	78,055.1	1,018,965.0
Ctrs. for Disease Control and Prevention	39,194.5	0.0	0.0	0.0	24,134.7	1,804.8	0.0	0.0	13,255.0
Health Resources and Services Administration	2,565.0	0.0	0.0	0.0	2,565.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,976,199.0	83,616.9	868,322.3	205,133.8	12,726,552.0	121,168.4	887,640.5	78,055.1	1,005,710.0
Department of Homeland Security	142,796.5	14,405.4	12,878.0	7,440.1	60,572.4	5,425.1	5,923.9	5,416.7	30,734.9
Science and Technology Directorate	142,796.5	14,405.4	12,878.0	7,440.1	60,572.4	5,425.1	5,923.9	5,416.7	30,734.9
Department of the Interior	61,152.0	0.0	0.0	21,364.0	16,350.2	22,883.4	0.0	554.4	0.0
U.S. Geological Survey	61,152.0	0.0	0.0	21,364.0	16,350.2	22,883.4	0.0	554.4	0.0
Department of Justice	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	812.7
Federal Bureau of Investigation	812.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	812.7

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Transportation	4,800.0	4,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	4,800.0	4,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	194.9	0.0	0.0	0.0	0.0	174.9	0.0	0.0	20.0
Bureau of Engraving and Printing	194.9	0.0	0.0	0.0	0.0	174.9	0.0	0.0	20.0
Department of Veterans Affairs	242,289.0	0.0	7,268.7	0.0	218,060.1	0.0	16,960.2	0.0	0.0
Other agencies									
Environmental Protection Agency	86,414.2	2,936.7	3,294.8	12,636.7	64,037.1	3,509.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,032,970.0	10,248.5	191,102.3	293,373.1	45,826.2	406,595.6	1,818.7	317.8	83,687.8
National Science Foundation	4,965,310.0	1,045,678.0	653,311.2	858,763.6	731,304.9	947,585.4	30,095.7	164,644.3	533,926.8
Smithsonian Institution	198,978.0	0.0	0.0	9,726.0	89,451.0	61,920.0	0.0	36,788.0	1,093.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 37. Federal obligations for basic research in computer sciences and mathematics, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,788,465.1	936,447.9	741,340.1	110,677.1
Departments				
Department of Agriculture	4,110.0	45.0	4,065.0	0.0
Agricultural Research Service	736.5	0.0	736.5	0.0
Forest Service	57.0	45.0	12.0	0.0
National Agricultural Statistics Service	3,316.6	0.0	3,316.6	0.0
Department of Commerce	14,357.9	895.8	0.0	13,462.1
National Institute of Standards and Technology	14,357.9	895.8	0.0	13,462.1
Department of Defense	280,217.9	119,319.6	72,424.2	88,474.1
Defense Advanced Research Projects Agency	45,197.9	34,537.2	10,660.6	0.0
Department of the Air Force	65,593.2	24,501.9	20,957.4	20,133.9
Department of the Army	90,260.5	26,851.3	21,789.3	41,619.9
Department of the Navy	63,103.2	23,185.2	14,325.7	25,592.2
Other defense agencies[a]	16,063.1	10,243.9	4,691.2	1,128.0
Department of Energy	392,989.1	47,862.7	341,612.4	3,514.0
National Nuclear Security Administration	5,303.4	814.0	975.4	3,514.0
Nonproliferation and Verification	5,303.4	814.0	975.4	3,514.0
Office of Science	387,685.7	47,048.7	340,637.0	0.0
Department of Health and Human Services	83,735.7	0.0	83,735.7	0.0
National Institutes of Health	83,735.7	0.0	83,735.7	0.0
Department of Homeland Security	11,476.5	5,226.2	2,882.6	3,367.8
Science and Technology Directorate	11,476.5	5,226.2	2,882.6	3,367.8
Department of Transportation	2,257.9	2,257.9	0.0	0.0
Federal Highway Administration	2,257.9	2,257.9	0.0	0.0
Other agencies				
Environmental Protection Agency	2,989.8	1,296.0	1,574.5	119.3
National Aeronautics and Space Administration	8,501.0	6,329.0	432.1	1,739.9
National Science Foundation	987,829.2	753,215.7	234,613.5	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 38. Federal obligations for basic research in engineering, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	3,167,986.1	153,190.4	32,896.3	182,705.0	149,200.0	281,045.7	82,258.2	1,077,226.8	1,209,463.7
Departments									
Department of Agriculture	18,418.7	0.0	0.0	2,729.2	793.1	453.2	566.5	0.0	13,876.7
Agricultural Research Service	5,098.5	0.0	0.0	2,549.3	793.1	453.2	566.5	0.0	736.5
Forest Service	2,884.2	0.0	0.0	180.0	0.0	0.0	0.0	0.0	2,704.3
National Institute of Food and Agriculture	10,436.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,436.0
Department of Commerce	15,432.3	0.0	0.0	0.0	0.0	11,274.7	0.0	528.7	3,629.0
National Institute of Standards and Technology	15,432.3	0.0	0.0	0.0	0.0	11,274.7	0.0	528.7	3,629.0
Department of Defense	649,562.7	52,769.7	8,866.9	56,500.3	7,412.8	177,552.6	70,553.4	107,143.0	168,764.1
Defense Advanced Research Projects Agency	132,930.6	0.0	176.8	0.0	0.0	32,625.5	0.0	14,022.0	86,106.3
Department of the Air Force	137,641.2	25,540.6	8,690.1	0.0	0.0	31,867.4	10,571.5	16,367.9	44,603.8
Department of the Army	125,555.1	17,410.1	0.0	4,873.6	4,674.0	41,726.0	26,502.2	28,840.3	1,528.8
Department of the Navy	194,996.9	3,134.9	0.0	24,101.6	318.9	60,535.7	28,350.9	44,459.4	34,095.6
Other defense agencies[a]	58,438.9	6,684.2	0.0	27,525.1	2,419.9	10,798.0	5,128.8	3,453.4	2,429.5
Department of Energy	818,198.8	0.0	0.0	52.5	891.3	8,474.5	891.3	806,946.1	943.1
Bonneville Power Administration	3,961.5	0.0	0.0	0.0	891.3	1,980.8	891.3	0.0	198.1
Electricity Delivery and Energy Reliability	6,446.4	0.0	0.0	0.0	0.0	6,446.4	0.0	0.0	0.0
National Nuclear Security Administration	5,626.0	0.0	0.0	52.5	0.0	47.3	0.0	4,781.3	745.0
Nonproliferation and Verification	5,626.0	0.0	0.0	52.5	0.0	47.3	0.0	4,781.3	745.0
Office of Science	802,164.8	0.0	0.0	0.0	0.0	0.0	0.0	802,164.8	0.0
Department of Health and Human Services	869,556.5	0.0	0.0	0.0	0.0	0.0	0.0	21,899.0	847,657.5
National Institutes of Health	869,556.5	0.0	0.0	0.0	0.0	0.0	0.0	21,899.0	847,657.5
Department of Homeland Security	10,259.7	0.0	0.0	0.0	2,467.2	3,059.8	0.0	228.7	4,504.1
Science and Technology Directorate	10,259.7	0.0	0.0	0.0	2,467.2	3,059.8	0.0	228.7	4,504.1
Department of Veterans Affairs	7,516.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,516.7
Other agencies									
Environmental Protection Agency	3,354.4	0.0	0.0	1,648.8	0.0	0.0	0.0	0.0	1,705.6
National Aeronautics and Space Administration	158,517.4	100,420.7	24,029.4	1,105.3	98.4	4,855.0	3,391.3	5,611.3	19,006.0
National Science Foundation	617,168.8	0.0	0.0	120,669.0	137,537.2	75,376.0	6,855.6	134,870.2	141,860.9

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 39. Federal obligations for basic research in environmental sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	1,796,442.1	612,468.6	396,420.3	483,044.1	304,509.1
Departments					
Department of Agriculture	14,095.2	13,545.6	56.7	0.0	492.9
Agricultural Research Service	2,492.6	2,436.0	56.7	0.0	0.0
Forest Service	3,521.5	3,028.6	0.0	0.0	492.9
National Institute of Food and Agriculture	8,081.0	8,081.0	0.0	0.0	0.0
Department of Defense	172,934.3	29,054.7	8,169.7	119,946.5	15,763.4
Defense Advanced Research Projects Agency	8,586.8	8,586.8	0.0	0.0	0.0
Department of the Air Force	3,331.5	1,097.4	0.0	0.0	2,234.1
Department of the Army	21,229.8	5,826.2	5,515.0	0.0	9,888.5
Department of the Navy	134,375.9	13,544.2	245.1	116,945.8	3,640.8
Other defense agencies[a]	5,410.2	0.0	2,409.5	3,000.7	0.0
Department of Energy	278,384.4	186,788.2	91,596.2	0.0	0.0
National Nuclear Security Administration	5,505.0	307.2	5,197.8	0.0	0.0
Nonproliferation and Verification	5,505.0	307.2	5,197.8	0.0	0.0
Office of Science	272,879.5	186,481.0	86,398.4	0.0	0.0
Department of Health and Human Services	218,163.8	0.0	0.0	0.0	218,163.8
Ctrs. for Disease Control and Prevention	12,738.5	0.0	0.0	0.0	12,738.5
National Institutes of Health	205,425.4	0.0	0.0	0.0	205,425.4
Department of Homeland Security	5,927.4	0.0	0.0	2,962.4	2,964.9
Science and Technology Directorate	5,927.4	0.0	0.0	2,962.4	2,964.9
Department of the Interior	29,864.0	0.0	28,141.0	0.0	1,723.0
U.S. Geological Survey	29,864.0	0.0	28,141.0	0.0	1,723.0
Other agencies					
Environmental Protection Agency	12,872.8	0.0	808.9	7,216.6	4,847.4
National Aeronautics and Space Administration	243,349.9	149,088.0	60,491.9	14,396.2	19,373.8
National Science Foundation	811,255.3	233,825.0	198,357.0	337,893.4	41,179.9
Smithsonian Institution	9,595.0	167.0	8,799.0	629.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 40. Federal obligations for basic research in life sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	15,373,391.2	546,976.3	8,277,103.7	434,588.2	5,085,503.6	1,029,219.3
Departments						
Department of Agriculture	832,312.0	534,354.5	116,668.9	170,786.6	10,491.0	11.0
Agricultural Research Service	520,444.3	404,311.6	36,256.1	70,642.6	9,234.0	0.0
Foreign Agricultural Service	171.9	171.9	0.0	0.0	0.0	0.0
Forest Service	67,045.3	23,234.5	7,672.9	36,126.9	0.0	11.0
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	237,960.0	99,946.0	72,740.0	64,017.0	1,257.0	0.0
Department of Commerce	8,575.8	0.0	8,575.8	0.0	0.0	0.0
National Institute of Standards and Technology	8,575.8	0.0	8,575.8	0.0	0.0	0.0
Department of Defense	213,186.7	0.0	79,238.6	7,928.1	91,788.1	34,231.9
Defense Advanced Research Projects Agency	41,543.5	0.0	8,468.8	0.0	33,074.7	0.0
Department of the Air Force	20,886.5	0.0	10,552.6	0.0	0.0	10,333.9
Department of the Army	57,070.4	0.0	20,639.4	0.0	35,423.0	1,008.0
Department of the Navy	68,987.1	0.0	32,994.1	7,928.1	6,212.3	21,852.6
Other defense agencies[b]	24,699.2	0.0	6,583.7	0.0	17,078.2	1,037.4
Department of Energy	374,021.7	0.0	374,021.7	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	376.3	0.0	376.3	0.0	0.0	0.0
National Nuclear Security Administration	242.5	0.0	242.5	0.0	0.0	0.0
Nonproliferation and Verification	242.5	0.0	242.5	0.0	0.0	0.0
Office of Science	373,402.8	0.0	373,402.8	0.0	0.0	0.0
Department of Health and Human Services	12,770,470.4	0.0	7,041,241.5	0.0	4,752,428.3	976,800.6
Ctrs. for Disease Control and Prevention	23,266.8	0.0	0.0	0.0	22,850.8	416.0
Health Resources and Services Administration	2,563.4	0.0	0.0	0.0	2,563.4	0.0
National Institutes of Health	12,744,640.2	0.0	7,041,241.5	0.0	4,727,014.2	976,384.5
Department of Homeland Security	48,257.0	12,093.0	24,725.8	0.0	0.0	11,438.2
Science and Technology Directorate	48,257.0	12,093.0	24,725.8	0.0	0.0	11,438.2
Department of the Interior	14,221.5	0.0	8,378.4	5,628.1	0.0	215.0
U.S. Geological Survey	14,221.5	0.0	8,378.4	5,628.1	0.0	215.0
Department of Justice	4,180.9	0.0	4,180.9	0.0	0.0	0.0
Office of Justice Programs	4,180.9	0.0	4,180.9	0.0	0.0	0.0
Department of Veterans Affairs	225,502.1	0.0	0.0	0.0	225,502.1	0.0
Other agencies						
Environmental Protection Agency	65,207.9	294.8	46,242.9	18,301.7	121.5	247.0
National Aeronautics and Space Administration	38,012.4	234.0	24,440.8	1,889.5	5,172.5	6,275.6
National Science Foundation	690,847.7	0.0	506,952.5	183,895.3	0.0	0.0
Smithsonian Institution	88,595.0	0.0	42,436.0	46,159.0	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 41. Federal obligations for basic research in physical sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	3,814,977.8	498,785.2	774,349.6	2,275,150.1	266,692.8
Departments					
Department of Agriculture	50,793.8	0.0	49,037.7	1,756.2	0.0
Agricultural Research Service	37,729.0	0.0	35,972.8	1,756.2	0.0
Forest Service	5,298.9	0.0	5,298.9	0.0	0.0
National Institute of Food and Agriculture	7,766.0	0.0	7,766.0	0.0	0.0
Department of Commerce	124,947.6	0.0	20,089.7	104,678.9	179.0
National Institute of Standards and Technology	124,947.6	0.0	20,089.7	104,678.9	179.0
Department of Defense	401,759.6	1,204.7	104,244.7	229,137.6	67,172.7
Defense Advanced Research Projects Agency	22,926.5	0.0	1,105.2	13,041.7	8,779.6
Department of the Air Force	151,116.2	0.0	37,979.3	99,513.5	13,623.5
Department of the Army	80,477.7	0.0	37,523.0	34,350.8	8,603.9
Department of the Navy	57,266.4	1,204.7	19,480.2	27,698.7	8,882.8
Other defense agencies[a]	89,972.8	0.0	8,156.9	54,533.0	27,283.0
Department of Energy	1,809,499.6	160.0	231,364.2	1,570,929.6	7,045.8
Energy Efficiency and Renewable Energy	1,223.7	0.0	1,223.7	0.0	0.0
Fossil Energy	4,106.0	0.0	4,106.0	0.0	0.0
National Nuclear Security Administration	25,369.2	160.0	1,440.9	16,722.5	7,045.8
Nonproliferation and Verification	25,369.2	160.0	1,440.9	16,722.5	7,045.8
Office of Science	1,778,800.8	0.0	224,593.7	1,554,207.1	0.0
Department of Health and Human Services	121,340.7	0.0	116,728.2	0.0	4,612.4
National Institutes of Health	121,340.7	0.0	116,728.2	0.0	4,612.4
Department of Homeland Security	4,322.1	0.0	4,322.1	0.0	0.0
Science and Technology Directorate	4,322.1	0.0	4,322.1	0.0	0.0
Department of the Interior	4,381.7	0.0	0.0	0.0	4,381.7
U.S. Geological Survey	4,381.7	0.0	0.0	0.0	4,381.7
Department of Justice	2,127.5	0.0	2,127.5	0.0	0.0
Office of Justice Programs	2,127.5	0.0	2,127.5	0.0	0.0
Department of the Treasury	237.9	0.0	0.0	0.0	237.9
Bureau of Engraving and Printing	237.9	0.0	0.0	0.0	237.9
Other agencies					
Environmental Protection Agency	3,572.4	0.0	3,045.6	0.0	526.8
National Aeronautics and Space Administration	337,266.8	209,299.6	15,175.0	97,624.9	15,167.3
National Science Foundation	895,163.2	233,463.9	226,871.1	267,458.9	167,369.3
Smithsonian Institution	59,565.0	54,657.0	1,344.0	3,564.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 42. Federal obligations for basic research in psychology, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	978,751.1	13,366.9	16,868.3	948,515.9
Departments				
Department of Defense	35,949.9	5,267.7	3,862.3	26,819.9
Defense Advanced Research Projects Agency	1,714.9	0.0	0.0	1,714.9
Department of the Air Force	12,020.1	2,776.2	2,825.9	6,418.1
Department of the Army	16,320.2	0.0	0.0	16,320.2
Department of the Navy	3,527.9	2,491.6	1,036.4	0.0
Other defense agencies[a]	2,366.7	0.0	0.0	2,366.7
Department of Health and Human Services	890,603.3	0.0	1,701.2	888,902.1
Ctrs. for Disease Control and Prevention	1,701.2	0.0	1,701.2	0.0
National Institutes of Health	888,902.1	0.0	0.0	888,902.1
Department of Homeland Security	4,719.5	0.0	4,593.5	126.0
Science and Technology Directorate	4,719.5	0.0	4,593.5	126.0
Department of Veterans Affairs	17,539.1	0.0	0.0	17,539.1
Other agencies				
National Aeronautics and Space Administration	1,508.6	86.2	170.2	1,252.2
National Science Foundation	28,430.8	8,013.0	6,541.1	13,876.7

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 43. Federal obligations for basic research in social sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	370,962.4	25,818.5	54,477.3	9,284.3	35,505.6	245,876.7
Departments						
Department of Agriculture	43,599.8	0.0	32,351.6	0.0	10,777.2	471.0
Economic Research Service	7,603.9	0.0	7,603.9	0.0	0.0	0.0
Forest Service	11,113.9	0.0	6,958.7	0.0	3,684.2	471.0
National Institute of Food and Agriculture	24,882.0	0.0	17,789.0	0.0	7,093.0	0.0
Department of Commerce	535.9	0.0	94.0	0.0	0.0	442.0
Economic Development Administration	442.0	0.0	0.0	0.0	0.0	442.0
National Institute of Standards and Technology	94.0	0.0	94.0	0.0	0.0	0.0
Department of Defense	33,195.1	0.0	0.0	0.0	3,988.5	29,206.6
Defense Advanced Research Projects Agency	1,304.9	0.0	0.0	0.0	0.0	1,304.9
Department of the Air Force	12,950.9	0.0	0.0	0.0	2,359.3	10,591.6
Department of the Army	7,286.4	0.0	0.0	0.0	0.0	7,286.4
Department of the Navy	10,225.4	0.0	0.0	0.0	1,629.2	8,596.1
Other defense agencies[a]	1,427.6	0.0	0.0	0.0	0.0	1,427.6
Department of Education	7,483.0	0.0	0.0	0.0	0.0	7,483.0
Department of Health and Human Services	78,166.0	0.0	0.0	0.0	0.0	78,166.0
National Institutes of Health	78,166.0	0.0	0.0	0.0	0.0	78,166.0
Department of Homeland Security	4,315.4	0.0	0.0	0.0	1,063.3	3,252.1
Science and Technology Directorate	4,315.4	0.0	0.0	0.0	1,063.3	3,252.1
Department of the Interior	471.9	0.0	0.0	0.0	0.0	471.9
U.S. Geological Survey	471.9	0.0	0.0	0.0	0.0	471.9
Department of Justice	11,215.7	0.0	0.0	0.0	11,215.7	0.0
Office of Justice Programs	11,215.7	0.0	0.0	0.0	11,215.7	0.0
Department of Transportation	2,100.0	0.0	2,100.0	0.0	0.0	0.0
Federal Highway Administration	2,100.0	0.0	2,100.0	0.0	0.0	0.0
Other agencies						
National Aeronautics and Space Administration	263.6	0.0	0.0	0.0	95.2	168.4
National Science Foundation	155,535.9	19,972.5	19,931.7	9,284.3	7,548.7	98,798.7
Smithsonian Institution	34,080.0	5,846.0	0.0	0.0	817.0	27,417.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	28,710,112.8	7,793,567.4	4,310,931.4	2,501,386.4	10,481,833.4	214,335.3	2,694,301.6	345,815.7	206,442.5	161,499.2
Departments										
Department of Agriculture	1,162,032.7	679,313.2	21,255.1	0.0	438,249.3	0.0	14,554.1	0.0	7,726.3	934.9
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	453,200.6	417,298.4	0.0	0.0	30,490.5	0.0	4,681.9	0.0	94.5	635.3
Economic Research Service	73,522.0	64,035.5	3,354.6	0.0	4,738.2	0.0	1,324.3	0.0	0.0	69.4
Foreign Agricultural Service	441.9	167.7	0.0	0.0	232.3	0.0	41.9	0.0	0.0	0.0
Forest Service	191,997.1	158,858.0	1,087.5	0.0	22,749.2	0.0	2,874.5	0.0	6,197.7	230.1
National Agricultural Statistics Service	4,086.4	2,925.3	0.0	0.0	938.1	0.0	223.0	0.0	0.0	0.0
National Institute of Food and Agriculture	434,957.0	32,885.0	16,813.0	0.0	378,901.0	0.0	4,924.0	0.0	1,434.0	0.0
Rural Business-Cooperative Service	1,684.4	1,000.0	0.0	0.0	200.0	0.0	484.4	0.0	0.0	0.0
Department of Commerce	775,428.7	595,491.7	40,974.1	0.0	128,223.5	211.8	6,117.0	0.0	3,789.0	621.6
Economic Development Administration	208.0	8.0	0.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	307,857.9	244,982.4	40,339.1	0.0	19,764.8	0.0	2,257.0	0.0	0.0	514.6
National Oceanic and Atmospheric Administration	448,759.0	331,897.6	635.0	0.0	108,258.7	211.8	3,860.0	0.0	3,789.0	107.0
National Telecommunications and Information Administration	7,808.8	7,808.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	10,795.0	10,795.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,710,348.0	1,721,864.4	2,042,595.7	30,345.7	665,119.5	74,200.4	135,160.0	17,387.2	1,257.1	22,418.0
Defense Advanced Research Projects Agency	1,129,800.0	73,468.9	689,969.1	6,971.3	281,184.7	15,805.8	50,849.0	4,417.0	0.0	7,134.4
Department of the Air Force	1,203,199.1	602,590.8	523,379.2	2,763.5	59,400.4	2,721.7	5,399.5	3,608.2	755.1	2,580.8
Department of the Army	1,063,404.7	492,353.0	385,691.7	3,980.0	127,819.6	4,020.0	46,797.4	2,393.0	0.0	350.0
Department of the Navy	748,435.1	261,594.8	323,955.0	7,141.4	118,974.7	8,448.0	18,222.9	4,173.0	502.0	5,423.4
Other defense agencies[b]	565,509.0	291,857.0	119,600.8	9,489.5	77,740.1	43,205.0	13,891.3	2,796.0	0.0	6,929.4
Department of Education	205,544.3	10,706.3	5,520.1	0.0	151,240.0	0.0	38,077.8	0.0	0.0	0.0
Department of Energy	3,388,369.1	345,099.9	271,438.6	2,144,129.3	201,051.4	91,588.5	64,115.5	264,598.1	6,347.8	0.0
Advanced Research Projects Agency—Energy	127,788.2	13,140.0	34,067.0	1,555.7	63,644.4	4,597.1	4,419.7	6,364.3	0.0	0.0
Bonneville Power Administration	1,320.5	120.5	150.0	0.0	50.0	0.0	1,000.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	55,331.6	3,333.2	8,800.8	8,331.8	4,186.1	2,742.8	15,931.4	12,005.7	0.0	0.0
Energy Efficiency and Renewable Energy	465,900.0	182,040.8	0.0	46,018.9	47,872.1	43,052.6	13,237.7	133,678.0	0.0	0.0
Environmental Management	22,265.0	1.0	6,697.0	6,859.2	818.4	916.1	1,500.0	5,473.4	0.0	0.0
Fossil Energy	180,659.0	55,652.6	36,830.2	26,640.1	20,160.0	4,169.3	25,437.8	5,421.1	6,347.8	0.0
National Nuclear Security Administration	2,208,292.5	89,311.8	169,173.6	1,846,156.7	63,989.1	4,966.3	2,589.0	32,106.0	0.0	0.0
Defense Programs	1,974,730.0	87,586.8	140,700.3	1,680,466.1	63,231.8	2,091.0	654.0	0.0	0.0	0.0
Nonproliferation and Verification	233,562.5	1,725.0	28,473.4	165,690.6	757.2	2,875.3	1,935.0	32,106.0	0.0	0.0
Nuclear Energy	326,812.3	1,500.0	15,720.0	208,566.9	331.3	31,144.4	0.0	69,549.7	0.0	0.0

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Health and Human Services	14,704,450.0	2,873,988.2	914,399.8	213,045.7	8,255,166.7	20,981.1	2,228,941.4	10,614.3	67,652.1	119,660.6
Administration for Children and Families	9,603.0	274.0	0.0	0.0	8,974.8	0.0	354.1	0.0	0.0	*
Agency for Healthcare Research and Quality	340,999.5	55,613.2	113,213.3	0.0	109,871.4	0.0	61,214.7	0.0	398.5	688.5
Agency for Toxic Substances and Disease Registry	5,099.7	2,287.9	0.0	0.0	1,627.6	0.0	1,184.3	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	282,773.2	112,484.1	32,295.0	0.0	91,751.9	1,215.3	10,806.1	0.0	25,997.6	8,223.1
Ctrs. for Medicare and Medicaid Services	35,424.0	40.0	29,630.7	0.0	908.0	0.0	2,778.3	69.5	1,997.6	0.0
Food and Drug Administration	225,202.2	211,381.8	5,178.7	0.0	5,413.5	0.0	2,732.5	0.0	95.8	400.0
Health Resources and Services Administration	24,145.4	1,041.2	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	13,761,336.0	2,487,913.8	726,533.0	213,045.7	8,018,225.3	19,765.8	2,135,796.0	10,544.8	39,162.6	110,349.0
Office of the Secretary	19,866.8	2,952.2	7,549.2	0.0	3,397.4	0.0	5,967.9	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	2,952.2	7,549.2	0.0	3,397.4	0.0	5,967.9	0.0	0.0	0.0
Department of Homeland Security	134,340.1	51,543.2	36,419.4	25,546.2	6,178.0	4,844.6	1,298.5	8,252.5	0.0	257.7
Science and Technology Directorate	127,252.1	50,938.7	30,029.9	25,546.2	6,084.0	4,844.6	1,298.5	8,252.5	0.0	257.7
U.S. Coast Guard	7,088.0	604.5	6,389.5	0.0	94.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	48,754.9	30,176.9	12,111.6	0.0	1,036.2	0.0	5,221.0	0.0	209.2	0.0
Department of the Interior	580,552.4	451,327.6	19,271.1	0.0	88,654.1	482.4	9,167.8	0.0	8,942.3	2,707.1
Bureau of Ocean Energy Management, Regulation and Enforcement	45,399.2	12,750.6	16,176.3	0.0	11,574.0	482.4	1,709.0	0.0	0.0	2,707.1
Bureau of Reclamation	8,599.0	5,368.0	1,582.0	0.0	1,649.0	0.0	0.0	0.0	0.0	0.0
National Park Service	8,301.1	688.5	162.0	0.0	7,161.7	0.0	288.9	0.0	0.0	0.0
U.S. Geological Survey	518,253.0	432,520.6	1,350.8	0.0	68,269.4	0.0	7,169.9	0.0	8,942.3	0.0
Department of Justice	66,942.8	14,486.6	12,552.1	975.0	19,873.0	355.0	11,619.2	275.7	6,806.1	0.0
Bureau of Prisons	3,463.0	1,489.1	0.0	0.0	0.0	0.0	0.0	0.0	1,973.9	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	55,413.0	4,930.8	12,552.1	975.0	19,873.0	355.0	11,619.2	275.7	4,832.2	0.0
Department of Labor	53,006.8	4,498.4	48,508.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	48,543.8	1,311.4	47,232.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,298.0	3,022.0	1,276.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	632,634.9	162,985.4	196,528.5	63,584.7	56,375.4	10.9	34,396.5	17,210.7	101,220.4	322.5
Federal Aviation Administration	210,101.0	90,123.2	89,773.1	0.0	18,539.4	10.9	4,851.3	6,803.2	0.0	0.0
Federal Highway Administration	295,398.9	37,744.9	53,861.0	63,584.7	10,921.1	0.0	27,819.3	10,407.5	91,060.4	0.0
Federal Motor Carrier Safety Administration	5,707.4	322.5	784.4	0.0	3,512.2	0.0	765.9	0.0	0.0	322.5
Federal Railroad Administration	20,336.4	2,585.1	7,567.5	0.0	9,223.8	0.0	960.0	0.0	0.0	0.0

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Transit Administration	23,294.0	1,252.0	6,000.0	0.0	5,882.0	0.0	0.0	0.0	10,160.0	0.0
National Highway Traffic Safety Administration	71,000.0	25,186.0	37,517.2	0.0	8,296.8	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	3,361.4	2,336.0	1,025.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,435.7	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	76,739.5	73,074.9	3,487.3	0.0	27.5	0.0	0.0	149.8	0.0	0.0
Bureau of Engraving and Printing	4,936.8	4,936.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,815.4	68,088.1	2,550.0	0.0	27.5	0.0	0.0	149.8	0.0	0.0
U.S. Mint	987.3	50.0	937.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	324,862.3	324,862.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	119,195.3	4,700.0	15,081.0	0.0	22,427.0	0.0	69,802.3	0.0	0.0	7,185.0
Appalachian Regional Commission	389.1	*	90.5	0.0	0.0	0.0	298.7	0.0	0.0	0.0
Environmental Protection Agency	403,392.6	209,679.2	127,778.3	0.0	65,090.1	0.0	0.0	0.0	0.0	845.0
Federal Communications Commission	3,660.6	3,660.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,728.8	2,728.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	884.3	884.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	717,781.6	207,493.8	399,146.1	0.0	67,287.3	13,537.3	24,265.3	5,387.4	222.5	442.0
National Archives and Records Administration	3,052.5	1,786.1	0.0	0.0	1,266.4	0.0	0.0	0.0	0.0	0.0
National Science Foundation	454,970.0	1,662.6	99,964.8	0.0	303,735.5	200.0	44,509.3	163.3	2,054.7	2,679.7
Nuclear Regulatory Commission	83,796.3	7,960.6	11,246.7	23,759.8	6,146.6	7,923.4	1,582.3	21,776.8	0.0	3,400.2
Social Security Administration	52,997.0	10,334.0	32,562.0	0.0	4,686.0	0.0	5,175.0	0.0	215.0	25.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	28,623,598.1	8,014,343.1	4,191,393.2	2,419,277.3	10,452,861.5	182,304.7	2,679,604.8	319,497.8	205,596.9	158,718.9
Departments										
Department of Agriculture	1,239,758.3	685,690.3	22,977.5	0.0	507,859.4	0.0	14,821.9	0.0	7,702.6	706.6
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	440,596.8	412,418.0	0.0	0.0	24,119.9	0.0	3,511.4	0.0	70.9	476.5
Economic Research Service	70,723.0	62,044.0	4,500.0	0.0	3,179.0	0.0	1,000.0	0.0	0.0	0.0
Foreign Agricultural Service	441.9	167.7	0.0	0.0	232.3	0.0	41.9	0.0	0.0	0.0
Forest Service	206,615.3	173,476.3	1,087.5	0.0	22,749.2	0.0	2,874.5	0.0	6,197.7	230.1
National Agricultural Statistics Service	4,100.0	3,460.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	511,888.0	30,981.0	17,390.0	0.0	457,159.0	0.0	4,924.0	0.0	1,434.0	0.0
Rural Business-Cooperative Service	3,250.0	1,000.0	0.0	0.0	0.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	804,858.8	648,955.6	21,472.7	0.0	122,951.3	211.8	6,060.5	37.6	5,041.5	127.8
Economic Development Administration	3,680.0	141.5	0.0	0.0	3,500.9	0.0	0.0	37.6	0.0	0.0
National Institute of Standards and Technology	321,076.9	270,322.6	20,714.1	0.0	23,606.2	0.0	5,919.5	0.0	514.6	0.0
National Oceanic and Atmospheric Administration	406,325.0	304,714.6	758.7	0.0	95,844.3	211.8	141.0	0.0	4,526.9	127.8
National Telecommunications and Information Administration	7,494.7	7,494.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	66,282.2	66,282.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,648,134.3	1,839,802.6	2,017,073.8	24,971.8	559,936.2	65,450.5	93,068.8	24,196.9	4,574.3	19,059.3
Defense Advanced Research Projects Agency	1,239,118.0	80,577.6	756,729.6	7,645.8	308,391.7	17,335.1	55,769.0	4,844.4	0.0	7,824.7
Department of the Air Force	1,294,353.4	697,557.9	520,554.9	865.3	62,629.3	1,219.6	3,050.5	6,019.0	623.7	1,833.0
Department of the Army	917,300.4	555,029.4	291,470.5	3,107.5	41,334.6	12,062.6	2,978.2	5,978.3	3,409.0	1,930.3
Department of the Navy	806,525.1	282,190.5	349,039.1	7,704.8	127,920.4	9,114.6	19,660.7	4,502.2	541.6	5,851.3
Other defense agencies[b]	390,837.5	224,447.3	99,279.7	5,648.4	19,660.1	25,718.6	11,610.4	2,853.0	0.0	1,620.0
Department of Education	203,628.6	11,377.3	6,474.1	0.0	145,848.2	0.0	39,929.0	0.0	0.0	0.0
Department of Energy	3,275,595.7	504,365.5	198,853.8	2,066,871.7	141,380.6	74,239.3	36,140.1	249,161.0	4,583.7	0.0
Advanced Research Projects Agency—Energy	60,978.0	12,100.0	33,691.0	495.0	9,511.4	1,213.2	2,311.4	1,655.9	0.0	0.0
Bonneville Power Administration	1,533.6	231.8	526.8	0.0	200.0	0.0	575.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	27,558.9	1,772.8	4,401.1	5,426.0	2,614.6	2,269.5	1,245.9	9,829.0	0.0	0.0
Energy Efficiency and Renewable Energy	434,453.0	169,753.5	0.0	42,912.7	44,640.8	40,146.6	12,344.2	124,655.1	0.0	0.0
Environmental Management	6,755.0	1.0	3,491.7	1,242.1	0.0	452.4	0.0	1,567.7	0.0	0.0
Fossil Energy	130,453.0	40,186.5	26,594.9	19,236.7	14,557.5	3,010.6	18,368.5	3,914.6	4,583.7	0.0
National Nuclear Security Administration	2,371,562.0	278,919.8	120,074.4	1,872,981.6	62,705.3	3,206.1	1,295.0	32,379.7	0.0	0.0
Defense Programs	2,143,383.7	276,537.3	90,988.6	1,712,749.8	62,083.0	1,000.0	25.0	0.0	0.0	0.0
Nonproliferation and Verification	228,178.4	2,382.6	29,085.9	160,231.7	622.3	2,206.1	1,270.0	32,379.7	0.0	0.0
Nuclear Energy	242,302.1	1,400.0	10,073.8	124,577.6	7,151.0	23,940.7	0.0	75,159.0	0.0	0.0

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Health and Human Services	14,749,306.9	2,778,487.9	906,179.0	221,580.1	8,369,977.9	23,947.3	2,257,657.4	10,724.7	58,264.1	122,488.4
Administration for Children and Families	9,804.6	279.8	0.0	0.0	9,163.3	0.0	361.6	0.0	0.0	*
Agency for Healthcare Research and Quality	339,528.8	55,373.3	112,724.9	0.0	109,397.5	0.0	60,950.7	0.0	396.7	685.5
Agency for Toxic Substances and Disease Registry	4,831.4	3,131.4	0.0	0.0	1,000.0	0.0	700.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	251,339.2	113,924.1	30,650.7	0.0	71,746.3	3,844.4	4,054.9	0.0	17,934.1	9,184.7
Ctrs. for Medicare and Medicaid Services	21,160.0	40.0	18,870.0	0.0	530.0	0.0	1,710.0	0.0	10.0	0.0
Food and Drug Administration	217,703.5	204,343.2	5,006.2	0.0	5,233.2	0.0	2,641.5	0.0	92.6	386.7
Health Resources and Services Administration	24,145.4	1,041.2	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	13,861,194.0	2,395,454.9	738,927.2	216,680.1	8,155,010.8	20,103.0	2,172,231.2	10,724.7	39,830.7	112,231.4
Office of the Secretary	19,600.0	4,900.0	0.0	4,900.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	4,900.0	0.0	4,900.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Department of Homeland Security	124,199.3	50,867.7	32,995.9	22,263.3	5,302.2	4,222.0	1,131.6	7,192.0	0.0	224.6
Science and Technology Directorate	110,899.3	44,392.7	26,170.9	22,263.3	5,302.2	4,222.0	1,131.6	7,192.0	0.0	224.6
U.S. Coast Guard	13,300.0	6,475.0	6,825.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	64,611.4	29,536.2	11,347.9	0.0	377.7	0.0	23,245.1	0.0	104.6	0.0
Department of the Interior	562,239.7	446,197.1	16,000.3	1,450.0	78,768.2	0.0	9,712.7	0.0	9,612.3	499.2
Bureau of Ocean Energy Management[c]	37,729.3	16,862.3	8,712.3	0.0	11,051.0	0.0	150.0	0.0	750.0	203.8
Bureau of Reclamation	7,490.0	2,397.0	1,873.0	0.0	599.0	0.0	2,546.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement[c]	7,347.4	1,056.4	4,552.9	996.1	366.6	0.0	80.0	0.0	0.0	295.4
U.S. Geological Survey	509,673.0	425,881.4	862.0	453.9	66,751.6	0.0	6,936.7	0.0	8,787.3	0.0
Department of Justice	50,983.5	10,744.6	8,158.9	767.9	14,302.1	383.9	9,694.7	383.9	6,547.5	0.0
Bureau of Prisons	3,288.0	1,413.8	0.0	0.0	0.0	0.0	0.0	0.0	1,874.2	0.0
Federal Bureau of Investigation	6,468.8	6,468.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	41,226.7	2,861.9	8,158.9	767.9	14,302.1	383.9	9,694.7	383.9	4,673.4	0.0
Department of Labor	13,014.3	4,804.3	8,210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	8,899.3	1,499.3	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3,950.0	3,140.0	810.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,182.5	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	670,316.7	189,026.4	208,256.1	60,814.4	53,175.7	12.1	42,719.9	9,463.2	106,772.6	76.2
Federal Aviation Administration	230,771.0	97,858.5	99,451.4	0.0	20,538.1	12.1	5,374.3	7,536.6	0.0	0.0
Federal Highway Administration	325,992.4	48,576.6	60,377.8	60,814.4	14,085.4	0.0	35,774.0	1,926.6	104,437.6	0.0
Federal Motor Carrier Safety Administration	6,551.1	152.4	761.8	0.0	4,837.2	0.0	723.7	0.0	0.0	76.2
Federal Railroad Administration	18,925.0	9,465.0	5,152.0	0.0	3,460.0	0.0	848.0	0.0	0.0	0.0
Federal Transit Administration	6,108.0	1,312.0	503.0	0.0	1,958.0	0.0	0.0	0.0	2,335.0	0.0
National Highway Traffic Safety Administration	72,000.0	25,541.0	38,162.0	0.0	8,297.0	0.0	0.0	0.0	0.0	0.0

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2012

(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Pipeline and Hazardous Materials Safety Administration	5,630.2	1,782.0	3,848.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,339.0	4,339.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74,671.4	71,280.6	3,390.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	4,438.0	4,438.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,908.7	66,792.6	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,324.7	50.0	1,274.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	322,168.6	322,168.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	121,579.2	4,794.0	15,382.6	0.0	22,875.6	0.0	71,198.3	0.0	0.0	7,328.7
Appalachian Regional Commission	390.0	*	190.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	394,200.0	204,561.7	125,316.5	0.0	63,497.9	0.0	0.0	0.0	0.0	823.8
Federal Communications Commission	3,883.4	3,883.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,907.2	1,907.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	586.3	586.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	696,048.5	170,720.9	431,896.1	0.0	58,727.2	7,618.0	21,028.5	5,472.9	207.5	377.5
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	450,380.0	1,645.8	98,956.3	0.0	300,671.2	198.0	44,067.4	161.6	2,027.0	2,652.7
Nuclear Regulatory Commission	68,804.9	8,434.6	12,557.0	20,558.0	2,976.7	6,021.8	1,198.8	12,703.9	0.0	4,354.1
Social Security Administration	78,160.0	21,067.0	45,704.0	0.0	3,300.0	0.0	7,930.0	0.0	159.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	29,903,452.0	8,294,888.9	4,611,635.9	2,716,692.8	10,574,352.8	209,268.2	2,690,085.6	418,360.0	218,583.8	169,584.1
Departments										
Department of Agriculture	1,128,859.0	659,387.7	23,465.5	0.0	422,788.7	0.0	14,807.9	0.0	7,702.6	706.6
Agricultural Marketing Service	2,643.3	2,643.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	441,026.0	410,880.0	0.0	0.0	26,087.2	0.0	3,511.4	0.0	70.9	476.5
Economic Research Service	70,397.0	61,931.0	4,500.0	0.0	2,966.0	0.0	1,000.0	0.0	0.0	0.0
Foreign Agricultural Service	441.9	167.7	0.0	0.0	232.3	0.0	41.9	0.0	0.0	0.0
Forest Service	181,211.8	148,072.7	1,087.5	0.0	22,749.2	0.0	2,874.5	0.0	6,197.7	230.1
National Agricultural Statistics Service	4,100.0	3,460.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	425,789.0	31,233.0	17,878.0	0.0	370,334.0	0.0	4,910.0	0.0	1,434.0	0.0
Rural Business-Cooperative Service	3,250.0	1,000.0	0.0	0.0	0.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	1,238,503.5	786,243.5	247,273.3	0.0	191,641.1	211.8	8,833.0	0.0	3,680.6	620.1
National Institute of Standards and Technology	650,866.6	307,607.1	246,656.5	0.0	87,368.4	0.0	8,718.4	0.0	0.0	516.2
National Oceanic and Atmospheric Administration	451,523.0	342,522.6	616.8	0.0	104,272.7	211.8	114.6	0.0	3,680.6	103.9
National Telecommunications and Information Administration	6,682.2	6,682.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	129,431.6	129,431.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,676,977.0	1,877,624.1	1,999,899.6	37,315.5	553,856.8	59,313.2	97,828.5	19,894.0	1,170.6	30,074.9
Defense Advanced Research Projects Agency	1,179,066.0	76,672.5	720,055.8	7,275.3	293,446.0	16,495.0	53,066.3	4,609.6	0.0	7,445.5
Department of the Air Force	1,334,347.7	738,969.8	519,983.7	1,695.0	63,701.4	771.9	3,296.1	3,425.1	639.4	1,865.3
Department of the Army	867,639.6	512,244.9	307,445.0	2,330.0	37,291.8	4,427.0	1,801.9	1,839.0	0.0	260.0
Department of the Navy	790,966.2	276,746.6	342,305.7	7,556.2	125,452.6	8,938.7	19,281.4	4,415.4	531.2	5,738.4
Other defense agencies[b]	504,957.6	272,990.2	110,109.4	18,458.9	33,965.0	28,680.6	20,382.8	5,605.0	0.0	14,765.6
Department of Education	223,395.4	11,382.4	5,766.9	0.0	160,122.3	0.0	46,123.8	0.0	0.0	0.0
Department of Energy	3,914,772.9	570,129.4	281,376.7	2,337,147.8	220,482.6	106,240.5	47,506.3	347,621.9	4,267.7	0.0
Advanced Research Projects Agency—Energy	141,620.0	18,250.0	60,330.5	2,038.2	46,611.0	4,167.9	5,218.3	5,004.2	0.0	0.0
Bonneville Power Administration	4,852.0	730.0	3,222.0	0.0	225.0	0.0	675.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	49,619.7	3,191.9	7,924.2	9,769.5	4,707.5	4,086.2	2,243.3	17,697.0	0.0	0.0
Energy Efficiency and Renewable Energy	739,014.0	288,754.4	0.0	72,995.5	75,935.0	68,290.3	20,997.8	212,041.0	0.0	0.0
Environmental Management	6,600.0	1.0	491.0	3,184.7	0.0	495.0	0.0	2,428.3	0.0	0.0
Fossil Energy	121,457.8	37,415.5	24,761.1	17,910.3	13,553.7	2,803.0	17,101.9	3,644.6	4,267.7	0.0
National Nuclear Security Administration	2,545,691.4	220,286.6	101,089.9	2,127,586.7	60,872.3	2,206.1	1,270.0	32,379.7	0.0	0.0
Defense Programs	2,317,513.0	217,904.0	72,004.0	1,967,355.0	60,250.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	228,178.4	2,382.6	29,085.9	160,231.7	622.3	2,206.1	1,270.0	32,379.7	0.0	0.0
Nuclear Energy	305,918.0	1,500.0	83,558.0	103,663.0	18,578.0	24,192.0	0.0	74,427.0	0.0	0.0
Department of Health and Human Services	14,766,783.9	2,774,742.6	905,828.3	217,678.4	8,392,115.7	24,040.0	2,260,914.5	10,774.1	58,272.8	122,417.6
Administration for Children and Families	10,010.5	285.6	0.0	0.0	9,355.7	0.0	369.2	0.0	0.0	*

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Agency for Healthcare Research and Quality	307,608.4	50,167.5	102,127.3	0.0	99,112.7	0.0	55,220.5	0.0	359.5	621.1
Agency for Toxic Substances and Disease Registry	4,831.4	3,131.4	0.0	0.0	1,000.0	0.0	700.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	193,404.8	66,097.5	27,950.4	0.0	65,125.0	3,844.4	4,009.9	0.0	17,789.1	8,588.6
Ctrs. for Medicare and Medicaid Services	24,567.0	40.0	22,971.0	0.0	726.0	0.0	830.0	0.0	0.0	0.0
Food and Drug Administration	258,662.3	242,788.4	5,948.1	0.0	6,217.8	0.0	3,138.5	0.0	110.0	459.4
Health Resources and Services Administration	24,145.4	1,041.2	0.0	0.0	14,996.7	0.0	8,107.5	0.0	0.0	0.0
National Institutes of Health	13,925,054.0	2,406,491.0	742,331.5	217,678.4	8,192,581.8	20,195.6	2,182,238.9	10,774.1	40,014.2	112,748.5
Office of the Secretary	18,500.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,500.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Department of Homeland Security	166,570.3	65,788.4	42,686.7	32,065.7	7,636.7	6,080.9	1,629.9	10,358.6	0.0	323.4
Science and Technology Directorate	159,727.3	63,938.4	37,693.7	32,065.7	7,636.7	6,080.9	1,629.9	10,358.6	0.0	323.4
U.S. Coast Guard	6,843.0	1,850.0	4,993.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	57,050.7	32,838.3	16,227.3	0.0	341.3	0.0	7,643.8	0.0	0.0	0.0
Department of the Interior	609,742.0	477,753.3	17,080.3	2,509.4	88,283.9	0.0	10,274.3	0.0	13,540.9	300.0
Bureau of Ocean Energy Management[c]	38,966.2	16,359.2	6,429.2	0.0	12,637.8	0.0	185.7	0.0	3,354.3	0.0
Bureau of Reclamation	7,490.0	2,397.0	1,873.0	0.0	599.0	0.0	2,546.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement[c]	13,073.8	899.6	7,874.2	2,000.0	2,000.0	0.0	0.0	0.0	0.0	300.0
U.S. Geological Survey	550,212.0	458,097.6	903.8	509.4	73,047.1	0.0	7,542.6	0.0	10,111.6	0.0
Department of Justice	9,842.8	7,919.6	0.0	0.0	0.0	0.0	0.0	0.0	1,923.2	0.0
Bureau of Prisons	3,374.0	1,450.8	0.0	0.0	0.0	0.0	0.0	0.0	1,923.2	0.0
Federal Bureau of Investigation	6,468.8	6,468.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	13,260.5	4,950.5	8,310.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	8,950.5	1,550.5	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,145.0	3,235.0	910.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,020.0	2,020.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	721,531.1	198,381.8	203,768.1	68,995.4	75,221.4	11.8	39,522.4	9,897.9	125,732.5	0.0
Federal Aviation Administration	223,050.0	94,038.5	96,532.5	0.0	19,935.3	11.8	5,216.6	7,315.4	0.0	0.0
Federal Highway Administration	333,092.2	56,482.9	40,919.4	68,995.4	22,096.3	0.0	33,526.2	2,582.5	108,489.5	0.0
Federal Motor Carrier Safety Administration	6,494.5	153.0	1,223.9	0.0	4,390.9	0.0	726.7	0.0	0.0	0.0
Federal Railroad Administration	10,570.4	1,786.4	3,932.2	0.0	4,799.0	0.0	52.9	0.0	0.0	0.0
Federal Transit Administration	30,741.0	1,498.0	1,000.0	0.0	11,000.0	0.0	0.0	0.0	17,243.0	0.0
National Highway Traffic Safety Administration	111,000.0	39,375.0	58,625.0	0.0	13,000.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,595.0	1,060.0	1,535.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,988.0	3,988.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2013

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of the Treasury	77,751.0	75,635.0	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,842.4	8,842.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,908.7	66,792.6	2,116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	314,141.1	314,141.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	124,010.8	4,889.9	15,690.3	0.0	23,333.1	0.0	72,622.3	0.0	0.0	7,475.3
Appalachian Regional Commission	390.0	*	190.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	401,329.8	208,261.6	127,583.1	0.0	64,646.4	0.0	0.0	0.0	0.0	838.7
Federal Communications Commission	4,760.3	4,760.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,942.0	1,942.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	621.5	621.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	834,360.0	175,977.7	561,955.9	0.0	59,799.2	8,836.7	21,757.8	5,414.4	231.5	386.7
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	458,040.0	1,673.8	100,639.4	0.0	305,785.0	201.4	44,816.8	164.4	2,061.4	2,697.8
Nuclear Regulatory Commission	80,848.9	13,059.5	18,759.7	20,980.7	3,864.9	4,332.0	1,874.5	14,234.7	0.0	3,742.9
Social Security Administration	73,959.0	23,510.0	33,019.0	0.0	3,500.0	0.0	13,930.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 47. Federal obligations for applied research, by detailed field of science and engineering: FYs 2011–13
(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	28,710,112.8	28,623,598.1	29,903,452.0
Computer sciences and mathematics	1,585,881.0	1,629,051.2	1,785,618.0
Computer sciences	1,255,241.4	NA	NA
Mathematics	150,288.1	NA	NA
Other computer sciences and mathematics	180,351.5	NA	NA
Engineering	6,889,194.1	6,618,054.9	7,320,058.6
Aeronautical engineering	691,940.7	NA	NA
Astronautical engineering	377,190.6	NA	NA
Chemical engineering	291,835.1	NA	NA
Civil engineering	467,889.0	NA	NA
Electrical engineering	954,414.3	NA	NA
Mechanical engineering	227,532.3	NA	NA
Metallurgy and materials engineering	544,024.3	NA	NA
Other engineering	3,334,367.9	NA	NA
Environmental sciences	1,410,744.0	1,281,622.4	1,228,159.1
Atmospheric sciences	341,429.0	NA	NA
Geological sciences	201,419.0	NA	NA
Oceanography	240,660.5	NA	NA
Other environmental sciences	627,235.5	NA	NA
Life sciences	14,035,209.5	13,903,320.7	14,003,304.7
Agricultural sciences	537,976.6	NA	NA
Biological sciences (excluding environmental biology)	6,901,196.9	NA	NA
Environmental biology	420,291.6	NA	NA
Medical sciences	5,075,598.1	NA	NA
Other life sciences	1,100,146.2	NA	NA
Physical sciences	1,611,616.8	1,688,555.1	1,939,575.8
Astronomy	56,580.5	NA	NA
Chemistry	331,995.9	NA	NA
Physics	993,646.4	NA	NA
Other physical sciences	229,394.0	NA	NA
Psychology	908,091.6	932,340.2	932,514.7
Biological aspects	3,004.8	NA	NA
Social aspects	37,619.6	NA	NA
Other psychological sciences	867,467.2	NA	NA
Social sciences	891,445.4	834,679.4	876,727.4
Anthropology	308.1	NA	NA
Economics	344,092.4	NA	NA
Political science	2,684.9	NA	NA
Sociology	97,027.7	NA	NA
Other social sciences	447,332.4	NA	NA
Other sciences nec	1,377,930.3	1,735,974.1	1,817,493.7

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	28,710,112.8	1,585,881.0	6,889,194.1	1,410,744.0	14,035,209.5	1,611,616.8	908,091.6	891,445.4	1,377,930.3
Departments									
Department of Agriculture	1,162,032.7	5,940.6	24,452.7	17,223.0	909,903.1	45,239.2	0.0	159,274.1	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	453,200.6	589.2	4,078.8	1,994.1	416,355.4	30,183.2	0.0	0.0	0.0
Economic Research Service	73,522.0	0.0	0.0	0.0	0.0	0.0	0.0	73,522.0	0.0
Foreign Agricultural Service	441.9	0.0	0.0	0.0	441.9	0.0	0.0	0.0	0.0
Forest Service	191,997.1	1,265.0	4,673.9	3,070.9	132,493.1	3,373.1	0.0	47,121.1	0.0
National Agricultural Statistics Service	4,086.4	4,086.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	434,957.0	0.0	15,700.0	12,158.0	357,985.0	11,683.0	0.0	37,431.0	0.0
Rural Business-Cooperative Service	1,684.4	0.0	0.0	0.0	484.4	0.0	0.0	1,200.0	0.0
Department of Commerce	775,428.7	78,525.4	179,175.2	349,784.9	50,514.7	76,661.0	800.8	18,880.3	21,086.4
Economic Development Administration	208.0	0.0	0.0	0.0	0.0	0.0	0.0	208.0	0.0
National Institute of Standards and Technology	307,857.9	68,241.5	165,643.5	111.9	6,251.7	60,388.0	0.0	0.0	7,221.4
National Oceanic and Atmospheric Administration	448,759.0	3,755.0	5,723.0	349,673.0	44,263.0	16,273.0	0.0	15,207.0	13,865.0
National Telecommunications and Information Administration	7,808.8	0.0	7,808.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	10,795.0	6,528.9	0.0	0.0	0.0	0.0	800.8	3,465.3	0.0
Department of Defense	4,710,348.0	626,903.2	2,695,135.9	109,025.9	594,361.2	450,748.5	44,210.0	58,692.8	131,270.4
Defense Advanced Research Projects Agency	1,129,800.0	325,526.1	552,816.6	4,750.2	155,877.8	46,220.6	0.0	44,608.7	0.0
Department of the Air Force	1,203,199.1	96,346.1	791,435.3	4,814.2	24,668.6	200,741.3	19,525.3	0.0	65,668.3
Department of the Army	1,063,404.7	77,841.9	600,664.1	24,986.3	223,868.4	113,757.0	17,781.0	350.0	4,156.1
Department of the Navy	748,435.1	41,785.7	567,649.5	68,821.5	41,320.1	2,505.6	0.0	9,611.1	16,741.6
Other defense agencies[a]	565,509.0	85,403.4	182,570.5	5,653.7	148,626.4	87,524.0	6,903.7	4,123.0	44,704.4
Department of Education	205,544.3	0.0	7,032.5	0.0	13,221.1	0.0	12,208.4	135,451.7	37,630.6
Department of Energy	3,388,369.1	583,540.1	1,944,414.9	48,704.4	34,449.5	777,125.1	0.0	0.0	135.2
Advanced Research Projects Agency—Energy	127,788.2	4,710.6	84,094.0	0.0	34,207.0	4,776.6	0.0	0.0	0.0
Bonneville Power Administration	1,320.5	0.0	1,320.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	55,331.6	0.0	55,331.6	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	465,900.0	0.0	465,900.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	22,265.0	0.0	0.0	22,265.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	180,659.0	0.0	134,887.5	17,113.4	0.0	28,658.2	0.0	0.0	0.0
National Nuclear Security Administration	2,208,292.5	578,829.5	876,069.0	9,326.0	242.5	743,690.3	0.0	0.0	135.2
Defense Programs	1,974,730.0	568,259.5	771,749.7	0.0	0.0	634,720.8	0.0	0.0	0.0
Nonproliferation and Verification	233,562.5	10,570.0	104,319.3	9,326.0	242.5	108,969.5	0.0	0.0	135.2
Nuclear Energy	326,812.3	0.0	326,812.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	14,704,450.0	115,236.7	748,443.3	256,659.1	11,583,518.4	104,370.2	766,166.1	151,301.0	978,755.2
Administration for Children and Families	9,603.0	0.0	0.0	0.0	0.0	0.0	0.0	9,603.0	0.0
Agency for Healthcare Research and Quality	340,999.5	43,212.0	500.9	0.0	150,559.3	0.0	1,583.8	49,977.3	95,166.2
Agency for Toxic Substances and Disease Registry	5,099.7	0.0	0.0	5,099.7	0.0	0.0	0.0	0.0	0.0

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Ctrs. for Disease Control and Prevention	282,773.2	0.0	0.0	74,864.3	190,603.2	0.0	0.0	0.0	17,305.8
Ctrs. for Medicare and Medicaid Services	35,424.0	0.0	0.0	0.0	35,424.0	0.0	0.0	0.0	0.0
Food and Drug Administration	225,202.2	0.0	0.0	0.0	225,202.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,145.4	0.0	0.0	0.0	19,525.4	0.0	0.0	4,620.0	0.0
National Institutes of Health	13,761,336.0	72,024.7	747,942.3	176,695.1	10,962,204.3	104,370.2	764,582.3	67,233.9	866,283.2
Office of the Secretary	19,866.8	0.0	0.0	0.0	0.0	0.0	0.0	19,866.8	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	0.0	0.0	0.0	0.0	0.0	0.0	19,866.8	0.0
Department of Homeland Security	134,340.1	29,619.0	24,820.0	2,773.0	22,410.3	26,192.7	5,087.7	13,060.6	10,376.8
Science and Technology Directorate	127,252.1	27,941.0	22,891.0	0.0	22,410.3	26,192.7	4,379.7	13,060.6	10,376.8
U.S. Coast Guard	7,088.0	1,678.0	1,929.0	2,773.0	0.0	0.0	708.0	0.0	0.0
Department of Housing and Urban Development	48,754.9	0.0	1,133.7	0.0	0.0	0.0	0.0	47,318.5	302.8
Department of the Interior	580,552.4	164.6	16,373.7	315,708.5	194,834.6	32,903.6	0.0	19,663.3	903.9
Bureau of Ocean Energy Management, Regulation and Enforcement	45,399.2	0.0	9,236.8	14,116.3	19,592.8	0.0	0.0	2,453.4	0.0
Bureau of Reclamation	8,599.0	0.0	7,137.0	0.0	687.9	0.0	0.0	0.0	774.1
National Park Service	8,301.1	164.6	0.0	3,943.2	3,594.0	469.6	0.0	0.0	129.8
U.S. Geological Survey	518,253.0	0.0	0.0	297,649.0	170,960.0	32,434.1	0.0	17,209.9	0.0
Department of Justice	66,942.8	5,529.6	0.0	0.0	10,292.3	5,226.7	0.0	37,827.4	8,066.7
Bureau of Prisons	3,463.0	0.0	0.0	0.0	0.0	0.0	0.0	3,463.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7
Office of Justice Programs	55,413.0	5,529.6	0.0	0.0	10,292.3	5,226.7	0.0	34,364.4	0.0
Department of Labor	53,006.8	0.0	0.0	0.0	0.0	0.0	0.0	48,708.8	4,298.0
Employee Benefits Security Administration	48,543.8	0.0	0.0	0.0	0.0	0.0	0.0	48,543.8	0.0
Occupational Safety and Health Administration	4,298.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,298.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0
Department of Transportation	632,634.9	38,364.0	416,566.6	31,136.7	45,639.2	706.6	26,872.5	33,897.9	39,451.3
Federal Aviation Administration	210,101.0	19,203.1	122,202.5	24,793.3	9,118.6	706.6	26,872.5	0.0	7,204.5
Federal Highway Administration	295,398.9	5,122.9	257,697.7	6,343.4	648.7	0.0	0.0	22,340.9	3,245.4
Federal Motor Carrier Safety Administration	5,707.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,707.4
Federal Railroad Administration	20,336.4	0.0	20,336.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	23,294.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23,294.0
National Highway Traffic Safety Administration	71,000.0	12,156.0	11,415.0	0.0	35,872.0	0.0	0.0	11,557.0	0.0
Pipeline and Hazardous Materials Safety Administration	3,361.4	1,882.0	1,479.4	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,435.7	0.0	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	76,739.5	0.0	987.3	0.0	0.0	4,936.8	0.0	70,815.4	0.0
Bureau of Engraving and Printing	4,936.8	0.0	0.0	0.0	0.0	4,936.8	0.0	0.0	0.0
Internal Revenue Service	70,815.4	0.0	0.0	0.0	0.0	0.0	0.0	70,815.4	0.0
U.S. Mint	987.3	0.0	987.3	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Veterans Affairs	324,862.3	0.0	18,826.1	0.0	258,573.3	0.0	47,462.9	0.0	0.0
Other agencies									
Agency for International Development	119,195.3	0.0	0.0	0.0	102,949.2	0.0	0.0	16,246.2	0.0
Appalachian Regional Commission	389.1	0.0	0.0	0.0	0.0	0.0	0.0	389.1	0.0
Environmental Protection Agency	403,392.6	8,592.8	57,210.1	166,262.1	159,365.0	9,632.3	0.0	2,330.3	0.0
Federal Communications Commission	3,660.6	135.0	1,542.0	0.0	0.0	600.0	0.0	1,383.6	0.0
Federal Trade Commission	2,728.8	0.0	0.0	0.0	0.0	0.0	0.0	2,728.8	0.0
Library of Congress	884.3	0.0	0.0	0.0	0.0	884.3	0.0	0.0	0.0
National Aeronautics and Space Administration	717,781.6	19,705.9	454,214.9	110,553.8	54,128.4	69,868.3	4,756.0	0.0	4,554.4
National Archives and Records Administration	3,052.5	2,932.5	0.0	50.0	0.0	70.0	0.0	0.0	0.0
National Science Foundation	454,970.0	70,691.7	215,069.0	2,862.7	1,049.2	6,451.4	527.2	17,220.4	141,098.4
Nuclear Regulatory Commission	83,796.3	0.0	83,796.3	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	52,997.0	0.0	0.0	0.0	0.0	0.0	0.0	52,997.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	28,623,598.1	1,629,051.2	6,618,054.9	1,281,622.4	13,903,320.7	1,688,555.1	932,340.2	834,679.4	1,735,974.1
Departments									
Department of Agriculture	1,239,758.3	5,745.8	27,881.5	22,676.9	972,396.5	46,779.5	0.0	164,278.1	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	440,596.8	572.8	3,965.4	1,938.6	404,776.3	29,343.7	0.0	0.0	0.0
Economic Research Service	70,723.0	0.0	0.0	0.0	0.0	0.0	0.0	70,723.0	0.0
Foreign Agricultural Service	441.9	0.0	0.0	0.0	441.9	0.0	0.0	0.0	0.0
Forest Service	206,615.3	1,073.0	5,046.2	3,144.3	142,824.0	3,641.7	0.0	50,886.1	0.0
National Agricultural Statistics Service	4,100.0	4,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	511,888.0	0.0	18,870.0	17,594.0	418,961.0	13,794.0	0.0	42,669.0	0.0
Rural Business-Cooperative Service	3,250.0	0.0	0.0	0.0	3,250.0	0.0	0.0	0.0	0.0
Department of Commerce	804,858.8	97,183.6	170,772.2	314,987.7	42,628.1	82,561.6	659.0	75,626.9	20,439.7
Economic Development Administration	3,680.0	0.0	0.0	0.0	0.0	0.0	0.0	3,680.0	0.0
National Institute of Standards and Technology	321,076.9	87,861.0	157,568.5	115.5	1,078.3	66,799.6	0.0	200.0	7,454.1
National Oceanic and Atmospheric Administration	406,325.0	3,637.0	5,709.0	314,872.2	41,549.8	15,762.0	0.0	11,809.4	12,985.6
National Telecommunications and Information Administration	7,494.7	0.0	7,494.7	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	66,282.2	5,685.6	0.0	0.0	0.0	0.0	659.0	59,937.6	0.0
Department of Defense	4,648,134.3	623,566.3	2,785,929.6	137,355.0	412,230.0	432,043.2	59,404.7	22,769.6	174,835.8
Defense Advanced Research Projects Agency	1,239,118.0	356,472.8	606,306.4	5,209.9	170,960.3	50,863.9	0.0	0.0	49,304.9
Department of the Air Force	1,294,353.4	107,381.9	873,775.7	5,040.6	3,250.8	212,931.5	38,389.8	0.0	53,582.9
Department of the Army	917,300.4	72,927.8	564,722.2	24,778.9	135,997.6	99,386.4	19,302.9	0.0	184.6
Department of the Navy	806,525.1	51,547.8	564,922.6	102,325.6	40,109.4	2,420.1	0.0	19,477.6	25,721.9
Other defense agencies[a]	390,837.5	35,236.0	176,202.8	0.0	61,911.9	66,441.3	1,712.0	3,292.0	46,041.5
Department of Education	203,628.6	0.0	7,040.0	0.0	13,235.2	0.0	12,221.4	134,065.1	37,066.8
Department of Energy	3,275,595.7	630,455.1	1,536,902.1	30,585.2	1,522.7	805,094.6	0.0	0.0	271,036.0
Advanced Research Projects Agency—Energy	60,978.0	0.0	21,178.9	0.0	1,366.7	9,698.5	0.0	0.0	28,733.9
Bonneville Power Administration	1,533.6	0.0	1,533.6	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	27,558.9	0.0	27,558.9	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	434,453.0	0.0	434,453.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	6,755.0	0.0	0.0	6,755.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	130,453.0	0.0	96,140.0	12,969.0	0.0	21,344.0	0.0	0.0	0.0
National Nuclear Security Administration	2,371,562.0	630,455.1	956,037.6	10,861.2	156.0	774,052.1	0.0	0.0	0.0
Defense Programs	2,143,383.7	618,075.8	864,038.6	0.0	0.0	661,269.3	0.0	0.0	0.0
Nonproliferation and Verification	228,178.4	12,379.4	91,999.0	10,861.2	156.0	112,782.7	0.0	0.0	0.0
Nuclear Energy	242,302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	242,302.1
Department of Health and Human Services	14,749,306.9	115,572.9	753,868.5	235,529.7	11,638,483.9	105,127.6	771,707.4	151,508.2	977,508.7
Administration for Children and Families	9,804.6	0.0	0.0	0.0	0.0	0.0	0.0	9,804.6	0.0
Agency for Healthcare Research and Quality	339,528.8	43,025.6	498.8	0.0	149,909.9	0.0	1,577.0	49,761.8	94,755.8
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	0.0	4,831.4	0.0	0.0	0.0	0.0	0.0

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Ctrs. for Disease Control and Prevention	251,339.2	0.0	0.0	52,721.1	188,434.4	0.0	0.0	0.0	10,183.7
Ctrs. for Medicare and Medicaid Services	21,160.0	0.0	0.0	0.0	21,160.0	0.0	0.0	0.0	0.0
Food and Drug Administration	217,703.5	0.0	0.0	0.0	217,703.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,145.4	0.0	0.0	0.0	19,525.4	0.0	0.0	4,620.0	0.0
National Institutes of Health	13,861,194.0	72,547.3	753,369.7	177,977.2	11,041,750.7	105,127.6	770,130.4	67,721.8	872,569.3
Office of the Secretary	19,600.0	0.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0
Department of Homeland Security	124,199.3	25,850.4	30,299.4	1,088.0	19,530.4	22,826.7	3,816.9	11,744.2	9,043.3
Science and Technology Directorate	110,899.3	24,350.4	19,949.4	0.0	19,530.4	22,826.7	3,816.9	11,382.2	9,043.3
U.S. Coast Guard	13,300.0	1,500.0	10,350.0	1,088.0	0.0	0.0	0.0	362.0	0.0
Department of Housing and Urban Development	64,611.4	0.0	372.4	0.0	0.0	0.0	0.0	63,610.4	628.7
Department of the Interior	562,239.7	417.6	12,664.2	231,298.8	192,745.4	102,329.8	0.0	22,183.8	600.2
Bureau of Ocean Energy Management[b]	37,729.3	417.6	0.0	12,322.8	19,413.7	0.0	0.0	5,575.2	0.0
Bureau of Reclamation	7,490.0	0.0	6,290.0	599.8	0.0	0.0	0.0	0.0	600.2
Bureau of Safety and Environmental Enforcement[b]	7,347.4	0.0	6,374.2	973.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	509,673.0	0.0	0.0	217,403.0	173,331.7	102,329.8	0.0	16,608.5	0.0
Department of Justice	50,983.5	528.9	0.0	0.0	10,000.0	2,392.7	0.0	31,593.2	6,468.8
Bureau of Prisons	3,288.0	0.0	0.0	0.0	0.0	0.0	0.0	3,288.0	0.0
Federal Bureau of Investigation	6,468.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,468.8
Office of Justice Programs	41,226.7	528.9	0.0	0.0	10,000.0	2,392.7	0.0	28,305.2	0.0
Department of Labor	13,014.3	0.0	0.0	0.0	0.0	0.0	0.0	9,064.3	3,950.0
Employee Benefits Security Administration	8,899.3	0.0	0.0	0.0	0.0	0.0	0.0	8,899.3	0.0
Occupational Safety and Health Administration	3,950.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,950.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	2,182.5	0.0
Department of Transportation	670,316.7	30,047.6	492,942.1	35,583.2	27,945.5	0.0	32,327.5	30,151.4	21,319.4
Federal Aviation Administration	230,771.0	16,602.2	133,117.9	27,605.4	13,435.5	0.0	32,327.5	0.0	7,682.7
Federal Highway Administration	325,992.4	4,950.5	291,146.1	7,901.6	94.0	0.0	0.0	20,846.4	1,053.8
Federal Motor Carrier Safety Administration	6,551.1	0.0	0.0	76.2	0.0	0.0	0.0	0.0	6,474.9
Federal Railroad Administration	18,925.0	0.0	18,925.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	6,108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,108.0
National Highway Traffic Safety Administration	72,000.0	8,048.0	40,231.0	0.0	14,416.0	0.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	5,630.2	447.0	5,183.2	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,339.0	0.0	4,339.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74,671.4	0.0	1,324.7	0.0	0.0	4,361.5	0.0	0.0	68,985.2
Bureau of Engraving and Printing	4,438.0	0.0	0.0	0.0	0.0	4,361.5	0.0	0.0	76.5
Internal Revenue Service	68,908.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68,908.7
U.S. Mint	1,324.7	0.0	1,324.7	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Veterans Affairs	322,168.6	0.0	18,670.0	0.0	256,429.2	0.0	47,069.4	0.0	0.0
Other agencies									
Agency for International Development	121,579.2	0.0	0.0	0.0	105,008.1	0.0	0.0	16,571.1	0.0
Appalachian Regional Commission	390.0	0.0	0.0	0.0	0.0	0.0	0.0	390.0	0.0
Environmental Protection Agency	394,200.0	8,396.9	55,905.5	162,477.6	155,730.4	9,412.6	0.0	2,277.1	0.0
Federal Communications Commission	3,883.4	210.0	1,316.5	0.0	0.0	900.0	0.0	1,456.9	0.0
Federal Trade Commission	1,907.2	0.0	0.0	0.0	1,907.2	0.0	0.0	0.0	0.0
Library of Congress	586.3	0.0	0.0	0.0	0.0	586.3	0.0	0.0	0.0
National Aeronautics and Space Administration	696,048.5	19,109.2	440,462.1	107,206.5	52,489.5	67,752.8	4,612.0	0.0	4,416.5
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	450,380.0	69,978.5	212,899.2	2,833.8	1,038.6	6,386.3	521.9	17,046.7	139,674.9
Nuclear Regulatory Commission	68,804.9	0.0	68,804.9	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	78,160.0	0.0	0.0	0.0	0.0	0.0	0.0	78,160.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	29,903,452.0	1,785,618.0	7,320,058.6	1,228,159.1	14,003,304.7	1,939,575.8	932,514.7	876,727.4	1,817,493.7
Departments									
Department of Agriculture	1,128,859.0	5,746.3	24,857.0	18,443.8	881,541.5	44,836.3	0.0	153,434.1	0.0
Agricultural Marketing Service	2,643.3	0.0	0.0	0.0	2,643.3	0.0	0.0	0.0	0.0
Agricultural Research Service	441,026.0	573.3	3,969.2	1,940.5	405,170.6	29,372.3	0.0	0.0	0.0
Economic Research Service	70,397.0	0.0	0.0	0.0	0.0	0.0	0.0	70,397.0	0.0
Foreign Agricultural Service	441.9	0.0	0.0	0.0	441.9	0.0	0.0	0.0	0.0
Forest Service	181,211.8	1,073.0	4,425.7	3,020.3	125,263.7	3,194.0	0.0	44,235.1	0.0
National Agricultural Statistics Service	4,100.0	4,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	425,789.0	0.0	16,462.0	13,483.0	344,772.0	12,270.0	0.0	38,802.0	0.0
Rural Business-Cooperative Service	3,250.0	0.0	0.0	0.0	3,250.0	0.0	0.0	0.0	0.0
Department of Commerce	1,238,503.5	230,465.7	315,542.4	354,244.6	46,960.9	132,853.3	679.6	136,973.2	20,783.9
National Institute of Standards and Technology	650,866.6	220,576.4	302,402.2	113.4	3,512.8	116,767.3	0.0	196.4	7,298.1
National Oceanic and Atmospheric Administration	451,523.0	3,712.0	6,458.0	354,131.1	43,448.2	16,086.0	0.0	14,202.0	13,485.7
National Telecommunications and Information Administration	6,682.2	0.0	6,682.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	129,431.6	6,177.3	0.0	0.0	0.0	0.0	679.6	122,574.8	0.0
Department of Defense	4,676,977.0	625,481.8	2,649,582.7	156,683.2	472,269.2	502,232.7	54,395.5	35,106.3	181,225.6
Defense Advanced Research Projects Agency	1,179,066.0	339,399.6	576,922.6	4,957.4	162,675.0	49,491.6	0.0	0.0	45,619.9
Department of the Air Force	1,334,347.7	109,605.1	867,160.8	7,494.4	2,927.1	230,133.0	34,996.3	0.0	82,031.1
Department of the Army	867,639.6	71,367.2	559,687.9	21,943.9	106,471.4	85,840.7	18,649.2	0.0	3,679.4
Department of the Navy	790,966.2	46,359.0	510,558.3	120,042.2	72,208.0	1,462.7	0.0	32,122.3	8,213.6
Other defense agencies[a]	504,957.6	58,751.0	135,253.0	2,245.4	127,987.7	135,304.7	750.0	2,984.0	41,681.7
Department of Education	223,395.4	0.0	7,051.0	0.0	13,256.0	0.0	12,240.6	150,125.4	40,722.4
Department of Energy	3,914,772.9	615,873.6	2,123,472.9	29,535.9	17,270.9	810,409.8	0.0	0.0	318,209.8
Advanced Research Projects Agency—Energy	141,620.0	3,494.3	99,964.0	0.0	17,114.9	8,755.0	0.0	0.0	12,291.8
Bonneville Power Administration	4,852.0	0.0	4,852.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	49,619.7	0.0	49,619.7	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	739,014.0	0.0	739,014.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	6,600.0	0.0	0.0	6,600.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	121,457.8	0.0	89,511.2	12,074.6	0.0	19,872.0	0.0	0.0	0.0
National Nuclear Security Administration	2,545,691.4	612,379.4	1,140,512.0	10,861.2	156.0	781,782.7	0.0	0.0	0.0
Defense Programs	2,317,513.0	600,000.0	1,048,513.0	0.0	0.0	669,000.0	0.0	0.0	0.0
Nonproliferation and Verification	228,178.4	12,379.4	91,999.0	10,861.2	156.0	112,782.7	0.0	0.0	0.0
Nuclear Energy	305,918.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305,918.0
Department of Health and Human Services	14,766,783.9	111,862.2	757,292.4	185,439.5	11,715,677.1	106,425.8	775,107.2	146,247.8	968,732.0
Administration for Children and Families	10,010.5	0.0	0.0	0.0	0.0	0.0	0.0	10,010.5	0.0
Agency for Healthcare Research and Quality	307,608.4	38,980.6	451.9	0.0	135,816.3	0.0	1,428.7	45,083.5	85,847.4

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Agency for Toxic Substances and Disease Registry	4,831.4	0.0	0.0	4,831.4	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	193,404.8	0.0	0.0	1,810.9	184,484.8	813.9	0.0	0.0	6,295.2
Ctrs. for Medicare and Medicaid Services	24,567.0	0.0	0.0	0.0	24,567.0	0.0	0.0	0.0	0.0
Food and Drug Administration	258,662.3	0.0	0.0	0.0	258,662.3	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,145.4	0.0	0.0	0.0	19,525.4	0.0	0.0	4,620.0	0.0
National Institutes of Health	13,925,054.0	72,881.5	756,840.6	178,797.2	11,092,621.2	105,611.9	773,678.5	68,033.8	876,589.3
Office of the Secretary	18,500.0	0.0	0.0	0.0	0.0	0.0	0.0	18,500.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,500.0	0.0	0.0	0.0	0.0	0.0	0.0	18,500.0	0.0
Department of Homeland Security	166,570.3	35,811.6	32,982.9	1,519.0	28,129.5	32,877.1	5,497.4	16,727.7	13,025.0
Science and Technology Directorate	159,727.3	35,071.6	28,732.9	0.0	28,129.5	32,877.1	5,497.4	16,393.7	13,025.0
U.S. Coast Guard	6,843.0	740.0	4,250.0	1,519.0	0.0	0.0	0.0	334.0	0.0
Department of Housing and Urban Development	57,050.7	0.0	0.0	0.0	0.0	0.0	0.0	54,240.6	2,810.1
Department of the Interior	609,742.0	528.3	17,636.8	151,766.7	214,336.9	202,183.2	0.0	22,689.8	600.2
Bureau of Ocean Energy Management[b]	38,966.2	528.3	0.0	14,448.9	20,362.6	0.0	0.0	3,626.3	0.0
Bureau of Reclamation	7,490.0	0.0	6,290.0	599.8	0.0	0.0	0.0	0.0	600.2
Bureau of Safety and Environmental Enforcement[b]	13,073.8	0.0	11,346.8	1,727.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	550,212.0	0.0	0.0	134,991.0	193,974.3	202,183.2	0.0	19,063.5	0.0
Department of Justice	9,842.8	0.0	0.0	0.0	0.0	0.0	0.0	3,374.0	6,468.8
Bureau of Prisons	3,374.0	0.0	0.0	0.0	0.0	0.0	0.0	3,374.0	0.0
Federal Bureau of Investigation	6,468.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,468.8
Department of Labor	13,260.5	0.0	0.0	0.0	0.0	0.0	0.0	9,115.5	4,145.0
Employee Benefits Security Administration	8,950.5	0.0	0.0	0.0	0.0	0.0	0.0	8,950.5	0.0
Occupational Safety and Health Administration	4,145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,145.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,020.0	0.0	0.0	0.0	0.0	0.0	0.0	2,020.0	0.0
Department of Transportation	721,531.1	53,886.0	490,319.9	33,718.8	32,249.7	0.0	32,638.7	34,230.4	44,487.7
Federal Aviation Administration	223,050.0	17,599.7	130,691.7	26,142.3	10,377.8	0.0	32,638.7	0.0	5,599.8
Federal Highway Administration	333,092.2	4,733.7	299,423.8	7,576.5	94.0	0.0	0.0	19,925.4	1,338.8
Federal Motor Carrier Safety Administration	6,494.5	0.0	0.0	0.0	76.5	0.0	0.0	0.0	6,418.0
Federal Railroad Administration	10,570.4	0.0	10,570.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	30,741.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30,741.0
National Highway Traffic Safety Administration	111,000.0	30,762.6	44,231.0	0.0	21,701.4	0.0	0.0	14,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,595.0	790.0	1,415.0	0.0	0.0	0.0	0.0	0.0	390.0
Research and Innovative Technology Administration	3,988.0	0.0	3,988.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,751.0	0.0	0.0	0.0	0.0	8,812.4	0.0	0.0	68,938.7
Bureau of Engraving and Printing	8,842.4	0.0	0.0	0.0	0.0	8,812.4	0.0	0.0	30.0
Internal Revenue Service	68,908.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68,908.7
Department of Veterans Affairs	314,141.1	0.0	18,204.8	0.0	250,039.8	0.0	45,896.6	0.0	0.0

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Other agencies									
Agency for International Development	124,010.8	0.0	0.0	0.0	107,108.3	0.0	0.0	16,902.5	0.0
Appalachian Regional Commission	390.0	0.0	0.0	0.0	0.0	0.0	0.0	390.0	0.0
Environmental Protection Agency	401,329.8	8,548.8	56,916.6	165,416.3	158,547.1	9,582.8	0.0	2,318.3	0.0
Federal Communications Commission	4,760.3	1,350.0	844.0	0.0	0.0	1,030.0	0.0	1,536.3	0.0
Federal Trade Commission	1,942.0	0.0	0.0	0.0	1,942.0	0.0	0.0	0.0	0.0
Library of Congress	621.5	0.0	0.0	0.0	0.0	621.5	0.0	0.0	0.0
National Aeronautics and Space Administration	834,360.0	22,906.4	527,986.1	128,509.4	62,919.6	81,216.0	5,528.4	0.0	5,294.1
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	458,040.0	71,168.7	216,520.2	2,882.0	1,056.3	6,495.0	530.8	17,336.6	142,050.5
Nuclear Regulatory Commission	80,848.9	0.0	80,848.9	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	73,959.0	0.0	0.0	0.0	0.0	0.0	0.0	73,959.0	0.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 51. Federal obligations for applied research in computer sciences and mathematics, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,585,881.0	1,255,241.4	150,288.1	180,351.5
Departments				
Department of Agriculture	5,940.6	1,023.0	4,917.6	0.0
Agricultural Research Service	589.2	0.0	589.2	0.0
Forest Service	1,265.0	1,023.0	242.0	0.0
National Agricultural Statistics Service	4,086.4	0.0	4,086.4	0.0
Department of Commerce	78,525.4	70,979.9	1,753.8	5,791.7
National Institute of Standards and Technology	68,241.5	68,086.7	0.2	154.5
National Oceanic and Atmospheric Administration	3,755.0	2,503.0	1,252.0	0.0
U.S. Census Bureau	6,528.9	390.2	501.6	5,637.1
Department of Defense	626,903.2	434,230.2	52,403.2	140,269.9
Defense Advanced Research Projects Agency	325,526.1	297,834.1	11,365.6	16,326.5
Department of the Air Force	96,346.1	54,442.9	20,603.4	21,299.7
Department of the Army	77,841.9	50,406.0	11,968.2	15,467.7
Department of the Navy	41,785.7	17,761.2	0.0	24,024.6
Other defense agencies[a]	85,403.4	13,786.0	8,466.0	63,151.4
Department of Energy	583,540.1	572,286.8	2,248.5	9,004.8
Advanced Research Projects Agency—Energy	4,710.6	2,537.1	2,173.5	0.0
National Nuclear Security Administration	578,829.5	569,749.8	75.0	9,004.8
Defense Programs	568,259.5	568,259.5	0.0	0.0
Nonproliferation and Verification	10,570.0	1,490.3	75.0	9,004.8
Department of Health and Human Services	115,236.7	37,422.2	72,024.7	5,789.8
Agency for Healthcare Research and Quality	43,212.0	37,422.2	0.0	5,789.8
National Institutes of Health	72,024.7	0.0	72,024.7	0.0
Department of Homeland Security	29,619.0	29,619.0	0.0	0.0
Science and Technology Directorate	27,941.0	27,941.0	0.0	0.0
U.S. Coast Guard	1,678.0	1,678.0	0.0	0.0
Department of the Interior	164.6	0.0	0.0	164.6
National Park Service	164.6	0.0	0.0	164.6
Department of Justice	5,529.6	5,529.6	0.0	0.0
Office of Justice Programs	5,529.6	5,529.6	0.0	0.0
Department of Transportation	38,364.0	20,808.7	12,083.6	5,471.7
Federal Aviation Administration	19,203.1	7,119.5	12,083.6	0.0
Federal Highway Administration	5,122.9	1,533.2	0.0	3,589.7
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,882.0	0.0	0.0	1,882.0
Other agencies				
Environmental Protection Agency	8,592.8	4,726.7	3,067.6	798.5
Federal Communications Commission	135.0	135.0	0.0	0.0
National Aeronautics and Space Administration	19,705.9	5,890.0	755.3	13,060.6
National Archives and Records Administration	2,932.5	2,932.5	0.0	0.0
National Science Foundation	70,691.7	69,657.8	1,033.8	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	6,889,194.1	691,940.7	377,190.6	291,835.1	467,889.0	954,414.3	227,532.3	544,024.3	3,334,367.9
Departments									
Department of Agriculture	24,452.7	0.0	0.0	2,039.4	634.5	362.6	453.2	0.0	20,963.1
Agricultural Research Service	4,078.8	0.0	0.0	2,039.4	634.5	362.6	453.2	0.0	589.2
Forest Service	4,673.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,673.9
National Institute of Food and Agriculture	15,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,700.0
Department of Commerce	179,175.2	0.0	0.0	2,335.2	37,232.2	57,536.6	3,180.6	48,745.2	30,145.4
National Institute of Standards and Technology	165,643.5	0.0	0.0	2,335.2	34,013.2	47,223.8	3,180.6	48,745.2	30,145.4
National Oceanic and Atmospheric Administration	5,723.0	0.0	0.0	0.0	3,219.0	2,504.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,808.8	0.0	0.0	0.0	0.0	7,808.8	0.0	0.0	0.0
Department of Defense	2,695,135.9	404,079.5	133,359.7	87,584.2	45,513.6	718,888.7	187,002.5	326,342.7	792,365.0
Defense Advanced Research Projects Agency	552,816.6	33,479.2	0.0	0.0	0.0	105,820.9	1,867.3	59,710.7	351,938.5
Department of the Air Force	791,435.3	265,345.6	130,603.6	3,036.6	0.0	107,535.6	19,631.0	148,987.1	116,295.8
Department of the Army	600,664.1	51,822.3	0.0	19,319.8	37,580.0	215,836.1	120,716.7	51,110.6	104,278.6
Department of the Navy	567,649.5	53,432.4	2,756.1	51,714.0	3,717.5	199,537.5	35,109.0	66,534.4	154,848.7
Other defense agencies[a]	182,570.5	0.0	0.0	13,513.7	4,216.1	90,158.6	9,678.5	0.0	65,003.6
Department of Education	7,032.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,032.5
Department of Energy	1,944,414.9	0.0	94,467.6	141,001.4	93,864.0	153,518.0	17,046.5	123,598.1	1,320,919.3
Advanced Research Projects Agency—Energy	84,094.0	0.0	0.0	6,805.7	0.0	33,866.1	16,146.3	24,489.4	2,786.5
Bonneville Power Administration	1,320.5	0.0	0.0	0.0	297.1	660.3	297.1	0.0	66.0
Electricity Delivery and Energy Reliability	55,331.6	0.0	0.0	0.0	0.0	55,331.6	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	465,900.0	0.0	0.0	0.0	92,482.6	61,405.1	540.6	606.4	310,865.3
Fossil Energy	134,887.5	0.0	0.0	133,803.1	1,084.3	0.0	0.0	0.0	0.0
National Nuclear Security Administration	876,069.0	0.0	94,467.6	392.5	0.0	2,255.0	62.5	98,502.3	680,389.1
Defense Programs	771,749.7	0.0	0.0	0.0	0.0	0.0	0.0	93,270.5	678,479.1
Nonproliferation and Verification	104,319.3	0.0	94,467.6	392.5	0.0	2,255.0	62.5	5,231.8	1,910.0
Nuclear Energy	326,812.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326,812.3
Department of Health and Human Services	748,443.3	0.0	0.0	0.0	0.0	0.0	294.7	18,970.9	729,177.6
Agency for Healthcare Research and Quality	500.9	0.0	0.0	0.0	0.0	0.0	294.7	134.7	71.5
National Institutes of Health	747,942.3	0.0	0.0	0.0	0.0	0.0	0.0	18,836.2	729,106.1
Department of Homeland Security	24,820.0	0.0	0.0	4,667.7	3,050.9	971.0	447.0	111.0	15,572.5
Science and Technology Directorate	22,891.0	0.0	0.0	4,667.7	2,650.9	0.0	0.0	0.0	15,572.5
U.S. Coast Guard	1,929.0	0.0	0.0	0.0	400.0	971.0	447.0	111.0	0.0
Department of Housing and Urban Development	1,133.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,133.7
Department of the Interior	16,373.7	0.0	0.0	4,495.7	3,009.6	687.9	2,156.0	1,320.5	4,704.0
Bureau of Ocean Energy Management, Regulation and Enforcement	9,236.8	0.0	0.0	2,518.0	0.0	0.0	1,210.2	804.6	4,704.0
Bureau of Reclamation	7,137.0	0.0	0.0	1,977.7	3,009.6	687.9	945.9	515.9	0.0

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Department of Transportation	416,566.6	0.0	0.0	0.0	249,605.9	0.0	11,908.1	23,105.6	131,947.0
Federal Aviation Administration	122,202.5	0.0	0.0	0.0	73,911.9	0.0	0.0	23,105.6	25,185.0
Federal Highway Administration	257,697.7	0.0	0.0	0.0	174,954.2	0.0	0.0	0.0	82,743.4
Federal Railroad Administration	20,336.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,336.4
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,479.4	0.0	0.0	0.0	739.7	0.0	493.1	0.0	246.6
Research and Innovative Technology Administration	3,435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,435.7
Department of the Treasury	987.3	0.0	0.0	0.0	0.0	0.0	0.0	248.5	738.8
U.S. Mint	987.3	0.0	0.0	0.0	0.0	0.0	0.0	248.5	738.8
Department of Veterans Affairs	18,826.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,826.1
Other agencies									
Environmental Protection Agency	57,210.1	0.0	0.0	20,801.5	2,401.3	0.0	683.1	517.5	32,806.7
Federal Communications Commission	1,542.0	0.0	0.0	0.0	0.0	1,402.0	0.0	0.0	140.0
National Aeronautics and Space Administration	454,214.9	287,861.2	149,363.3	124.3	7.9	3,979.8	2,660.7	927.6	9,290.3
National Science Foundation	215,069.0	0.0	0.0	28,785.8	32,569.2	17,067.8	1,699.8	136.7	134,809.6
Nuclear Regulatory Commission	83,796.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83,796.3

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 53. Federal obligations for applied research in environmental sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	1,410,744.0	341,429.0	201,419.0	240,660.5	627,235.5
Departments					
Department of Agriculture	17,223.0	15,377.6	45.3	0.0	1,800.0
Agricultural Research Service	1,994.1	1,948.8	45.3	0.0	0.0
Forest Service	3,070.9	1,270.9	0.0	0.0	1,800.0
National Institute of Food and Agriculture	12,158.0	12,158.0	0.0	0.0	0.0
Department of Commerce	349,784.9	147,970.0	379.9	131,842.0	69,593.0
National Institute of Standards and Technology	111.9	0.0	111.9	0.0	0.0
National Oceanic and Atmospheric Administration	349,673.0	147,970.0	268.0	131,842.0	69,593.0
Department of Defense	109,025.9	13,508.6	2,429.3	69,382.6	23,705.4
Defense Advanced Research Projects Agency	4,750.2	0.0	0.0	4,750.2	0.0
Department of the Air Force	4,814.2	2,384.9	2,429.3	0.0	0.0
Department of the Army	24,986.3	5,540.7	0.0	0.0	19,445.6
Department of the Navy	68,821.5	2,756.1	0.0	61,805.5	4,259.8
Other defense agencies[a]	5,653.7	2,826.8	0.0	2,826.8	0.0
Department of Energy	48,704.4	2,800.0	6,176.0	0.0	39,728.4
Environmental Management	22,265.0	0.0	0.0	0.0	22,265.0
Fossil Energy	17,113.4	0.0	0.0	0.0	17,113.4
National Nuclear Security Administration	9,326.0	2,800.0	6,176.0	0.0	350.0
Nonproliferation and Verification	9,326.0	2,800.0	6,176.0	0.0	350.0
Department of Health and Human Services	256,659.1	0.0	0.0	0.0	256,659.1
Agency for Toxic Substances and Disease Registry	5,099.7	0.0	0.0	0.0	5,099.7
Ctrs. for Disease Control and Prevention	74,864.3	0.0	0.0	0.0	74,864.3
National Institutes of Health	176,695.1	0.0	0.0	0.0	176,695.1
Department of Homeland Security	2,773.0	0.0	0.0	0.0	2,773.0
U.S. Coast Guard	2,773.0	0.0	0.0	0.0	2,773.0
Department of the Interior	315,708.5	1,835.5	182,127.9	2,166.7	129,578.5
Bureau of Ocean Energy Management, Regulation and Enforcement	14,116.3	640.7	11,318.1	2,157.6	0.0
National Park Service	3,943.2	1,194.8	499.9	9.1	2,239.5
U.S. Geological Survey	297,649.0	0.0	170,310.0	0.0	127,339.0
Department of Transportation	31,136.7	25,153.9	0.0	2,393.1	3,589.7
Federal Aviation Administration	24,793.3	24,793.3	0.0	0.0	0.0
Federal Highway Administration	6,343.4	360.6	0.0	2,393.1	3,589.7
Other agencies					
Environmental Protection Agency	166,262.1	58,197.8	2,621.0	14,059.9	91,383.4
National Aeronautics and Space Administration	110,553.8	76,258.9	7,494.2	20,415.3	6,385.4
National Archives and Records Administration	50.0	0.0	0.0	0.0	50.0
National Science Foundation	2,862.7	326.7	145.4	400.8	1,989.8

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	14,035,209.5	537,976.6	6,901,196.9	420,291.6	5,075,598.1	1,100,146.2
Departments						
Department of Agriculture	909,903.1	495,312.1	146,541.3	258,466.3	9,278.2	305.3
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	416,355.4	323,449.3	29,004.8	56,514.1	7,387.2	0.0
Foreign Agricultural Service	441.9	441.9	0.0	0.0	0.0	0.0
Forest Service	132,493.1	18,435.2	8,107.5	105,645.1	0.0	305.3
National Institute of Food and Agriculture	357,985.0	150,358.0	109,429.0	96,307.0	1,891.0	0.0
Rural Business-Cooperative Service	484.4	484.4	0.0	0.0	0.0	0.0
Department of Commerce	50,514.7	4,829.0	18,026.7	12,348.0	2,951.0	12,360.0
National Institute of Standards and Technology	6,251.7	0.0	6,251.7	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	44,263.0	4,829.0	11,775.0	12,348.0	2,951.0	12,360.0
Department of Defense	594,361.2	2,826.8	120,674.4	7,976.5	418,181.1	44,702.3
Defense Advanced Research Projects Agency	155,877.8	0.0	65,476.1	0.0	90,401.7	0.0
Department of the Air Force	24,668.6	0.0	313.0	0.0	0.0	24,355.6
Department of the Army	223,868.4	0.0	5,349.0	0.0	209,917.0	8,602.3
Department of the Navy	41,320.1	0.0	7,466.7	7,976.5	14,132.4	11,744.4
Other defense agencies[b]	148,626.4	2,826.8	42,069.5	0.0	103,730.0	0.0
Department of Education	13,221.1	0.0	0.0	0.0	0.0	13,221.1
Department of Energy	34,449.5	34,207.0	242.5	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	34,207.0	34,207.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	242.5	0.0	242.5	0.0	0.0	0.0
Nonproliferation and Verification	242.5	0.0	242.5	0.0	0.0	0.0
Department of Health and Human Services	11,583,518.4	0.0	6,360,729.4	0.0	4,242,321.2	980,467.8
Agency for Healthcare Research and Quality	150,559.3	0.0	49.0	0.0	149,133.8	1,376.5
Ctrs. for Disease Control and Prevention	190,603.2	0.0	79,008.4	0.0	7,757.1	103,837.7
Ctrs. for Medicare and Medicaid Services	35,424.0	0.0	0.0	0.0	0.0	35,424.0
Food and Drug Administration	225,202.2	0.0	225,202.2	0.0	0.0	0.0
Health Resources and Services Administration	19,525.4	0.0	0.0	0.0	19,525.4	0.0
National Institutes of Health	10,962,204.3	0.0	6,056,469.8	0.0	4,065,904.9	839,829.7
Department of Homeland Security	22,410.3	0.0	22,410.3	0.0	0.0	0.0
Science and Technology Directorate	22,410.3	0.0	22,410.3	0.0	0.0	0.0
Department of the Interior	194,834.6	9.1	97,673.2	95,033.7	0.0	2,118.7
Bureau of Ocean Energy Management, Regulation and Enforcement	19,592.8	0.0	0.0	19,592.8	0.0	0.0
Bureau of Reclamation	687.9	0.0	0.0	687.9	0.0	0.0
National Park Service	3,594.0	9.1	1,819.6	1,692.7	0.0	72.7
U.S. Geological Survey	170,960.0	0.0	95,853.6	73,060.4	0.0	2,046.0
Department of Justice	10,292.3	0.0	5,442.0	0.0	0.0	4,850.4
Office of Justice Programs	10,292.3	0.0	5,442.0	0.0	0.0	4,850.4
Department of Transportation	45,639.2	0.0	648.7	0.0	9,118.6	35,872.0
Federal Aviation Administration	9,118.6	0.0	0.0	0.0	9,118.6	0.0
Federal Highway Administration	648.7	0.0	648.7	0.0	0.0	0.0
National Highway Traffic Safety Administration	35,872.0	0.0	0.0	0.0	0.0	35,872.0
Department of Veterans Affairs	258,573.3	0.0	0.0	0.0	258,573.3	0.0
Other agencies						
Agency for International Development	102,949.2	0.0	0.0	0.0	102,949.2	0.0

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
Environmental Protection Agency	159,365.0	574.2	110,155.8	44,810.2	236.8	3,588.0
National Aeronautics and Space Administration	54,128.4	218.4	17,604.4	1,656.0	31,988.9	2,660.7
National Science Foundation	1,049.2	0.0	1,048.2	1.0	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 55. Federal obligations for applied research in physical sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	1,611,616.8	56,580.5	331,995.9	993,646.4	229,394.0
Departments					
Department of Agriculture	45,239.2	0.0	43,834.3	1,404.9	0.0
Agricultural Research Service	30,183.2	0.0	28,778.2	1,404.9	0.0
Forest Service	3,373.1	0.0	3,373.1	0.0	0.0
National Institute of Food and Agriculture	11,683.0	0.0	11,683.0	0.0	0.0
Department of Commerce	76,661.0	0.0	27,688.9	48,566.5	405.6
National Institute of Standards and Technology	60,388.0	0.0	26,436.9	33,545.5	405.6
National Oceanic and Atmospheric Administration	16,273.0	0.0	1,252.0	15,021.0	0.0
Department of Defense	450,748.5	9,109.9	73,982.1	252,696.2	114,960.3
Defense Advanced Research Projects Agency	46,220.6	0.0	10,056.0	9,587.5	26,577.1
Department of the Air Force	200,741.3	9,109.9	14,954.9	153,780.2	22,896.3
Department of the Army	113,757.0	0.0	18,368.0	41,512.7	53,876.3
Department of the Navy	2,505.6	0.0	0.0	0.0	2,505.6
Other defense agencies[a]	87,524.0	0.0	30,603.2	47,815.9	9,104.9
Department of Energy	777,125.1	160.0	52,755.1	671,484.6	52,725.4
Advanced Research Projects Agency—Energy	4,776.6	0.0	4,776.6	0.0	0.0
Fossil Energy	28,658.2	0.0	28,658.2	0.0	0.0
National Nuclear Security Administration	743,690.3	160.0	19,320.3	671,484.6	52,725.4
Defense Programs	634,720.8	0.0	0.0	618,521.2	16,199.6
Nonproliferation and Verification	108,969.5	160.0	19,320.3	52,963.4	36,525.8
Department of Health and Human Services	104,370.2	0.0	100,402.9	0.0	3,967.3
National Institutes of Health	104,370.2	0.0	100,402.9	0.0	3,967.3
Department of Homeland Security	26,192.7	0.0	19,516.9	0.0	6,675.8
Science and Technology Directorate	26,192.7	0.0	19,516.9	0.0	6,675.8
Department of the Interior	32,903.6	0.0	310.8	158.7	32,434.1
National Park Service	469.6	0.0	310.8	158.7	0.0
U.S. Geological Survey	32,434.1	0.0	0.0	0.0	32,434.1
Department of Justice	5,226.7	0.0	0.0	0.0	5,226.7
Office of Justice Programs	5,226.7	0.0	0.0	0.0	5,226.7
Department of Transportation	706.6	0.0	706.6	0.0	0.0
Federal Aviation Administration	706.6	0.0	706.6	0.0	0.0
Department of the Treasury	4,936.8	0.0	0.0	0.0	4,936.8
Bureau of Engraving and Printing	4,936.8	0.0	0.0	0.0	4,936.8
Other agencies					
Environmental Protection Agency	9,632.3	0.0	8,493.8	0.0	1,138.5
Federal Communications Commission	600.0	0.0	0.0	600.0	0.0
Library of Congress	884.3	0.0	884.3	0.0	0.0
National Aeronautics and Space Administration	69,868.3	47,136.9	2,381.0	17,129.3	3,221.2
National Archives and Records Administration	70.0	0.0	50.0	20.0	0.0
National Science Foundation	6,451.4	173.8	989.2	1,586.2	3,702.3

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 56. Federal obligations for applied research in psychology, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	908,091.6	3,004.8	37,619.6	867,467.2
Departments				
Department of Commerce	800.8	0.0	0.0	800.8
U.S. Census Bureau	800.8	0.0	0.0	800.8
Department of Defense	44,210.0	2,826.8	4,076.8	37,306.3
Department of the Air Force	19,525.3	0.0	0.0	19,525.3
Department of the Army	17,781.0	0.0	0.0	17,781.0
Other defense agencies[a]	6,903.7	2,826.8	4,076.8	0.0
Department of Education	12,208.4	0.0	0.0	12,208.4
Department of Health and Human Services	766,166.1	0.0	1,483.8	764,682.3
Agency for Healthcare Research and Quality	1,583.8	0.0	1,483.8	100.0
National Institutes of Health	764,582.3	0.0	0.0	764,582.3
Department of Homeland Security	5,087.7	0.0	708.0	4,379.7
Science and Technology Directorate	4,379.7	0.0	0.0	4,379.7
U.S. Coast Guard	708.0	0.0	708.0	0.0
Department of Transportation	26,872.5	0.0	26,872.5	0.0
Federal Aviation Administration	26,872.5	0.0	26,872.5	0.0
Department of Veterans Affairs	47,462.9	0.0	0.0	47,462.9
Other agencies				
National Aeronautics and Space Administration	4,756.0	0.0	4,305.3	450.6
National Science Foundation	527.2	178.0	173.1	176.1

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	891,445.4	308.1	344,092.4	2,684.9	97,027.7	447,332.4
Departments						
Department of Agriculture	159,274.1	68.0	138,954.6	0.0	16,167.0	4,084.4
Economic Research Service	73,522.0	0.0	73,522.0	0.0	0.0	0.0
Forest Service	47,121.1	68.0	37,472.6	0.0	5,496.0	4,084.4
National Institute of Food and Agriculture	37,431.0	0.0	26,760.0	0.0	10,671.0	0.0
Rural Business-Cooperative Service	1,200.0	0.0	1,200.0	0.0	0.0	0.0
Department of Commerce	18,880.3	0.0	1,830.1	1,073.0	982.9	14,994.4
Economic Development Administration	208.0	0.0	0.0	0.0	0.0	208.0
National Oceanic and Atmospheric Administration	15,207.0	0.0	1,635.0	1,073.0	537.0	11,962.0
U.S. Census Bureau	3,465.3	0.0	195.1	0.0	445.9	2,824.3
Department of Defense	58,692.8	0.0	0.0	0.0	6,984.9	51,707.9
Defense Advanced Research Projects Agency	44,608.7	0.0	0.0	0.0	0.0	44,608.7
Department of the Army	350.0	0.0	0.0	0.0	0.0	350.0
Department of the Navy	9,611.1	0.0	0.0	0.0	3,170.9	6,440.2
Other defense agencies[a]	4,123.0	0.0	0.0	0.0	3,814.0	309.0
Department of Education	135,451.7	0.0	0.0	0.0	0.0	135,451.7
Department of Health and Human Services	151,301.0	40.5	36,876.8	25.4	984.3	113,374.0
Administration for Children and Families	9,603.0	0.0	0.0	0.0	0.0	9,603.0
Agency for Healthcare Research and Quality	49,977.3	40.5	36,876.8	25.4	984.3	12,050.4
Health Resources and Services Administration	4,620.0	0.0	0.0	0.0	0.0	4,620.0
National Institutes of Health	67,233.9	0.0	0.0	0.0	0.0	67,233.9
Office of the Secretary	19,866.8	0.0	0.0	0.0	0.0	19,866.8
Office of the Assistant Secretary, Planning and Evaluation	19,866.8	0.0	0.0	0.0	0.0	19,866.8
Department of Homeland Security	13,060.6	0.0	0.0	0.0	0.0	13,060.6
Science and Technology Directorate	13,060.6	0.0	0.0	0.0	0.0	13,060.6
Department of Housing and Urban Development	47,318.5	0.0	33,854.6	0.0	5,258.6	8,205.3
Department of the Interior	19,663.3	0.0	88.0	0.0	2,208.1	17,367.2
Bureau of Ocean Energy Management, Regulation and Enforcement	2,453.4	0.0	88.0	0.0	2,208.1	157.3
U.S. Geological Survey	17,209.9	0.0	0.0	0.0	0.0	17,209.9
Department of Justice	37,827.4	0.0	0.0	0.0	9,317.9	28,509.5
Bureau of Prisons	3,463.0	0.0	0.0	0.0	0.0	3,463.0
Office of Justice Programs	34,364.4	0.0	0.0	0.0	9,317.9	25,046.5
Department of Labor	48,708.8	0.0	48,708.8	0.0	0.0	0.0
Employee Benefits Security Administration	48,543.8	0.0	48,543.8	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	3,258.2	0.0	521.3	553.9	228.1	1,954.9
Department of Transportation	33,897.9	0.0	720.6	70.9	71.9	33,034.5
Federal Highway Administration	22,340.9	0.0	720.6	70.9	71.9	21,477.5
National Highway Traffic Safety Administration	11,557.0	0.0	0.0	0.0	0.0	11,557.0
Department of the Treasury	70,815.4	0.0	70,815.4	0.0	0.0	0.0
Internal Revenue Service	70,815.4	0.0	70,815.4	0.0	0.0	0.0
Other agencies						
Agency for International Development	16,246.2	0.0	0.0	0.0	0.0	16,246.2
Appalachian Regional Commission	389.1	0.0	389.1	0.0	0.0	0.0
Environmental Protection Agency	2,330.3	0.0	2,330.3	0.0	0.0	0.0
Federal Communications Commission	1,383.6	0.0	1,383.6	0.0	0.0	0.0

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Federal Trade Commission	2,728.8	0.0	2,728.8	0.0	0.0	0.0
National Science Foundation	17,220.4	199.6	4,890.5	961.6	1,826.9	9,341.7
Social Security Administration	52,997.0	0.0	0.0	0.0	52,997.0	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 58. Federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	77,467,125.6	22,481,327.7	47,512,775.8	1,440,138.7	1,427,125.2	1,213,339.2	875,799.5	1,475,986.4	434,023.6	606,609.5
Departments										
Department of Agriculture	215,956.6	200,477.7	0.0	0.0	14,125.9	0.0	1,170.5	0.0	23.6	158.8
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	113,300.2	104,324.6	0.0	0.0	7,622.6	0.0	1,170.5	0.0	23.6	158.8
Animal and Plant Health Inspection Service	28,954.6	22,451.3	0.0	0.0	6,503.3	0.0	0.0	0.0	0.0	0.0
Forest Service	71,558.6	71,558.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	126,166.2	78,642.7	23,959.8	0.0	21,307.8	1,185.0	232.0	0.0	596.0	243.0
National Institute of Standards and Technology	33,985.6	3,319.7	23,959.8	0.0	6,706.1	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	43,518.0	26,660.4	0.0	0.0	14,601.6	1,185.0	232.0	0.0	596.0	243.0
U.S. Census Bureau	48,662.7	48,662.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	68,561,564.8	20,882,331.1	42,766,964.9	589,416.2	955,705.1	490,865.6	654,959.5	1,221,512.3	398,225.3	601,584.8
Defense Advanced Research Projects Agency	1,462,348.0	130,596.5	1,226,787.0	6,752.0	60,056.9	18,465.9	15,009.6	1,809.0	0.0	2,871.2
Department of the Air Force	24,826,126.4	3,165,510.6	20,241,043.0	125,329.6	53,220.7	246,673.3	14,298.8	941,984.5	24,880.3	13,185.6
Department of the Army	8,353,339.3	3,591,640.5	4,391,210.7	8,787.7	166,353.8	28,217.5	112,696.0	42,374.1	0.0	12,058.9
Department of the Navy	16,496,961.1	5,081,921.4	10,520,680.7	321,640.1	346,133.4	37,132.2	82,028.2	99,375.4	0.0	8,049.8
Other defense agencies[b]	17,422,790.0	8,912,662.0	6,387,243.6	126,906.7	329,940.4	160,376.8	430,927.0	135,969.2	373,345.0	565,419.4
Department of Defense, advanced technology	5,939,278.3	1,659,544.5	3,398,666.2	76,919.9	425,550.6	64,380.4	193,643.2	36,017.1	59,531.0	25,025.4
Defense Advanced Research Projects Agency	1,273,211.0	81,894.5	1,087,597.0	6,752.0	59,592.9	18,465.9	14,228.6	1,809.0	0.0	2,871.2
Department of the Air Force	585,974.2	111,864.2	441,505.4	2,831.1	10,894.9	5,991.6	357.6	12,529.4	0.0	0.0
Department of the Army	1,167,338.3	365,628.4	581,437.6	217.2	124,845.5	0.0	92,998.6	1,810.5	0.0	400.5
Department of the Navy	868,971.6	165,655.4	571,169.5	3,057.2	83,416.6	5,351.0	30,878.6	4,993.0	0.0	4,450.3
Other defense agencies[b]	2,043,783.2	934,502.1	716,956.7	64,062.4	146,800.9	34,571.9	55,179.7	14,875.2	59,531.0	17,303.4
Department of Defense, major systems	62,622,286.5	19,222,786.6	39,368,298.7	512,496.3	530,154.4	426,485.2	461,316.3	1,185,495.2	338,694.3	576,559.4
Defense Advanced Research Projects Agency	189,137.0	48,702.0	139,190.0	0.0	464.0	0.0	781.0	0.0	0.0	0.0
Department of the Air Force	24,240,152.1	3,053,646.5	19,799,537.5	122,498.5	42,325.8	240,681.7	13,941.1	929,455.1	24,880.3	13,185.6
Department of the Army	7,186,001.0	3,226,012.2	3,809,773.0	8,570.5	41,508.3	28,217.5	19,697.4	40,563.6	0.0	11,658.4
Department of the Navy	15,627,989.6	4,916,266.1	9,949,511.2	318,582.9	262,716.8	31,781.2	51,149.5	94,382.4	0.0	3,599.5
Other defense agencies[b]	15,379,006.8	7,978,159.9	5,670,286.9	62,844.3	183,139.5	125,804.8	375,747.3	121,094.0	313,814.0	548,116.0
Department of Education	133,073.8	5,896.0	11,402.0	0.0	82,043.6	0.0	33,732.3	0.0	0.0	0.0
Department of Energy	2,595,695.8	294,522.8	1,101,151.5	819,340.9	83,164.1	54,875.1	48,649.3	185,814.3	8,177.9	*
Advanced Research Projects Agency—Energy	47,090.6	4,860.0	26,337.1	855.3	12,021.9	929.8	1,104.9	981.5	0.0	0.0
Bonneville Power Administration	7,923.1	1,693.7	5,964.4	0.0	225.0	0.0	40.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	26,992.2	3,174.6	1,506.5	7,200.9	1,520.4	2,303.7	309.7	10,976.4	0.0	0.0
Energy Efficiency and Renewable Energy	395,728.0	154,622.7	0.0	14,858.8	40,663.6	36,565.3	11,244.8	137,772.8	0.0	0.0

TABLE 58. Federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Environmental Management	45,204.0	1.0	13,643.6	13,925.3	1,661.6	1,859.9	3,000.0	11,112.7	0.0	0.0
Fossil Energy	225,823.0	71,705.2	60,319.3	0.0	26,530.6	12,264.8	32,774.9	14,050.2	8,177.9	*
National Nuclear Security Administration	1,785,900.0	53,965.5	993,380.6	726,465.4	541.0	951.6	175.0	10,420.9	0.0	0.0
Defense Programs	796,287.1	11,835.5	130,987.1	653,464.5	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	941,745.1	42,130.1	846,869.1	52,631.4	0.0	19.5	0.0	95.0	0.0	0.0
Nonproliferation and Verification	47,867.8	*	15,524.3	20,369.5	541.0	932.1	175.0	10,325.9	0.0	0.0
Nuclear Energy	61,035.0	4,500.0	0.0	56,035.2	0.0	0.0	0.0	499.8	0.0	0.0
Department of Health and Human Services	78,025.9	31,382.8	0.0	0.0	32,038.8	0.0	13,183.3	0.0	1,420.9	0.0
Agency for Healthcare Research and Quality	29,652.1	29,652.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	38,301.4	1,730.7	0.0	0.0	28,848.2	0.0	6,876.6	0.0	845.9	0.0
Health Resources and Services Administration	10,072.3	*	0.0	0.0	3,190.6	0.0	6,306.7	0.0	575.0	0.0
Department of Homeland Security	310,981.3	113,056.8	96,909.9	31,154.4	25,388.1	9,173.1	9,683.6	23,618.5	0.0	1,996.9
Science and Technology Directorate	296,775.3	111,935.4	84,041.3	31,154.4	25,172.1	9,173.1	9,683.6	23,618.5	0.0	1,996.9
U.S. Coast Guard	14,206.0	1,121.4	12,868.6	0.0	216.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	24,111.9	12,325.3	8,749.4	0.0	579.5	0.0	2,287.9	0.0	169.8	0.0
Department of the Interior	76,498.2	59,872.0	709.0	0.0	12,641.9	0.0	1,580.0	0.0	1,695.3	0.0
Bureau of Reclamation	2,866.0	1,789.0	527.0	0.0	550.0	0.0	0.0	0.0	0.0	0.0
National Park Service	859.2	38.5	0.0	0.0	779.3	0.0	41.4	0.0	0.0	0.0
U.S. Geological Survey	72,773.0	58,044.5	182.0	0.0	11,312.6	0.0	1,538.6	0.0	1,695.3	0.0
Department of Justice	17,836.2	11,388.2	0.0	0.0	0.0	0.0	0.0	0.0	6,448.0	0.0
Bureau of Prisons	8,162.0	1,714.0	0.0	0.0	0.0	0.0	0.0	0.0	6,448.0	0.0
Federal Bureau of Investigation	9,674.2	9,674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,632.2	452.0	2,180.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,632.2	452.0	2,180.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	204,448.2	58,309.1	72,290.1	0.0	8,397.3	0.5	9,482.0	38,722.1	17,186.6	60.5
Federal Aviation Administration	119,451.0	34,782.6	42,400.8	0.0	2,341.7	0.5	1,981.2	37,944.2	0.0	0.0
Federal Highway Administration	44,326.4	5,327.2	12,707.9	0.0	4,419.0	0.0	4,057.7	777.9	17,036.6	0.0
Federal Motor Carrier Safety Administration	628.8	64.5	564.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	24,023.6	7,680.4	14,181.7	0.0	1,151.5	0.0	1,010.0	0.0	0.0	0.0
Federal Transit Administration	553.0	198.0	0.0	0.0	205.0	0.0	0.0	0.0	150.0	0.0
Office of the Secretary	9,259.0	7,569.0	1,440.0	0.0	250.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	4,565.7	1,046.7	995.4	0.0	30.0	0.0	2,433.2	0.0	0.0	60.5
Research and Innovative Technology Administration	1,640.6	1,640.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	595.9	595.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	595.9	595.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 58. Federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Veterans Affairs	37,480.8	37,480.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	85,600.0	10.0	85,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	620.8	620.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,995,837.0	693,963.8	3,342,869.0	227.3	191,733.0	657,239.9	100,839.0	6,319.3	80.2	2,565.5

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.
[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	76,735,947.2	24,615,599.5	45,214,780.0	1,383,397.4	1,182,785.8	1,278,630.9	559,257.3	1,407,655.5	827,569.2	266,271.6
Departments										
Department of Agriculture	213,610.2	198,072.8	0.0	0.0	14,522.7	0.0	877.9	0.0	17.7	119.1
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	110,149.2	103,104.5	0.0	0.0	6,030.0	0.0	877.9	0.0	17.7	119.1
Animal and Plant Health Inspection Service	39,015.7	30,522.9	0.0	0.0	8,492.7	0.0	0.0	0.0	0.0	0.0
Forest Service	62,302.1	62,302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	88,307.4	70,504.1	3,544.7	0.0	9,364.5	1,185.0	229.4	0.0	3,239.4	240.3
National Institute of Standards and Technology	15,884.6	9,689.9	3,544.7	0.0	0.0	0.0	0.0	0.0	2,650.0	0.0
National Oceanic and Atmospheric Administration	37,174.0	25,565.4	0.0	0.0	9,364.5	1,185.0	229.4	0.0	589.4	240.3
U.S. Census Bureau	35,248.8	35,248.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	67,884,856.2	22,936,413.3	40,476,793.0	707,896.1	717,369.1	549,475.2	330,875.0	1,117,231.4	787,594.0	261,209.2
Defense Advanced Research Projects Agency	1,298,139.0	120,729.9	1,078,338.6	6,411.1	56,803.3	17,533.7	13,878.6	1,717.7	0.0	2,726.2
Department of the Air Force	26,706,957.3	4,451,267.8	20,701,781.9	224,502.8	30,236.8	323,706.7	9,126.4	860,619.0	88,508.3	17,207.6
Department of the Army	7,717,253.6	3,455,733.9	4,059,407.1	11,933.6	91,487.6	32,042.0	24,633.6	40,037.2	0.0	1,978.6
Department of the Navy	17,001,254.5	5,549,739.4	10,490,132.2	387,982.3	339,225.4	35,938.9	84,448.3	106,421.9	0.0	7,366.1
Other defense agencies[b]	15,161,251.9	9,358,942.3	4,147,133.2	77,066.2	199,616.1	140,253.9	198,788.0	108,435.7	699,085.8	231,930.7
Department of Defense, advanced technology	5,265,545.1	1,595,543.4	3,098,409.5	48,409.2	301,827.1	108,779.5	64,603.2	27,142.0	0.0	20,831.1
Defense Advanced Research Projects Agency	1,208,935.0	77,760.2	1,032,691.4	6,411.1	56,584.4	17,533.7	13,510.3	1,717.7	0.0	2,726.2
Department of the Air Force	630,367.4	159,355.7	445,866.6	2,057.3	12,128.1	608.7	3,423.2	6,927.8	0.0	0.0
Department of the Army	1,066,567.4	430,332.7	541,050.4	5,802.6	68,314.8	3,179.0	15,967.4	1,460.0	0.0	460.5
Department of the Navy	720,704.8	137,246.1	473,832.2	2,536.2	69,200.9	4,439.1	25,616.4	4,142.1	0.0	3,691.9
Other defense agencies[b]	1,638,970.4	790,848.7	604,969.0	31,601.9	95,598.9	83,019.0	6,086.1	12,894.4	0.0	13,952.5
Department of Defense, major systems	62,619,311.2	21,340,869.9	37,378,383.4	659,486.9	415,542.0	440,695.8	266,271.7	1,090,089.4	787,594.0	240,378.0
Defense Advanced Research Projects Agency	89,204.0	42,969.7	45,647.2	0.0	218.8	0.0	368.3	0.0	0.0	0.0
Department of the Air Force	26,076,589.9	4,291,912.1	20,255,915.3	222,445.5	18,108.7	323,098.1	5,703.3	853,691.2	88,508.3	17,207.6
Department of the Army	6,650,686.2	3,025,401.2	3,518,356.6	6,131.0	23,172.8	28,863.0	8,666.3	38,577.2	0.0	1,518.1
Department of the Navy	16,280,549.6	5,412,493.3	10,016,300.0	385,446.1	270,024.5	31,499.8	58,831.9	102,279.8	0.0	3,674.2
Other defense agencies[b]	13,522,281.4	8,568,093.7	3,542,164.3	45,464.3	104,017.2	57,234.9	192,701.9	95,541.3	699,085.8	217,978.2
Department of Education	134,114.0	6,068.3	11,610.0	0.0	83,887.8	0.0	32,547.9	0.0	0.0	0.0
Department of Energy	2,505,680.1	324,337.7	1,115,623.5	647,983.2	85,504.8	65,477.1	42,451.2	218,397.4	5,905.3	*
Advanced Research Projects Agency—Energy	49,956.4	9,900.0	26,112.6	1,155.0	7,694.1	1,564.2	2,561.3	969.1	0.0	0.0
Bonneville Power Administration	9,201.8	1,685.7	6,516.1	0.0	725.0	0.0	275.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	15,897.4	1,230.0	629.0	3,951.0	1,528.5	2,669.0	168.4	5,721.5	0.0	0.0
Energy Efficiency and Renewable Energy	544,914.0	212,914.1	0.0	20,460.5	55,993.4	50,350.1	15,484.0	189,712.0	0.0	0.0

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Environmental Management	13,715.0	1.0	7,090.6	2,521.9	0.0	918.6	0.0	3,182.9	0.0	0.0
Fossil Energy	163,067.0	51,778.4	43,556.7	0.0	19,157.8	8,856.4	23,666.8	10,145.7	5,905.3	*
National Nuclear Security Administration	1,687,658.2	46,828.5	1,031,718.5	599,044.5	406.0	1,118.8	295.6	8,246.3	0.0	0.0
Defense Programs	618,963.2	800.0	97,273.0	520,890.2	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,031,100.0	45,968.5	920,595.4	64,428.6	0.0	11.5	0.0	96.0	0.0	0.0
Nonproliferation and Verification	37,595.0	60.0	13,850.1	13,725.7	406.0	1,107.3	295.6	8,150.3	0.0	0.0
Nuclear Energy	21,270.3	0.0	0.0	20,850.3	0.0	0.0	0.0	420.0	0.0	0.0
Department of Health and Human Services	71,405.0	31,406.1	0.0	0.0	26,510.2	0.0	12,215.7	0.0	1,265.0	8.0
Agency for Healthcare Research and Quality	29,524.2	29,524.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	31,345.0	1,881.9	0.0	0.0	24,714.1	0.0	3,726.0	0.0	1,015.0	8.0
Health Resources and Services Administration	10,535.8	*	0.0	0.0	1,796.1	0.0	8,489.7	0.0	250.0	0.0
Department of Homeland Security	287,336.6	109,575.9	89,915.4	27,150.8	21,937.3	7,994.3	8,439.2	20,583.4	0.0	1,740.2
Science and Technology Directorate	258,637.6	97,550.9	73,241.4	27,150.8	21,937.3	7,994.3	8,439.2	20,583.4	0.0	1,740.2
U.S. Coast Guard	28,699.0	12,025.0	16,674.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	29,139.4	12,427.2	10,250.3	0.0	210.4	0.0	6,154.9	0.0	96.6	0.0
Department of the Interior	115,170.0	91,061.1	2,283.1	141.0	15,426.5	0.0	2,733.5	0.0	3,524.9	0.0
Bureau of Reclamation	2,497.0	799.0	624.0	0.0	200.0	0.0	849.0	0.0	25.0	0.0
Bureau of Safety and Environmental Enforcement[c]	2,379.0	142.0	1,587.1	0.0	649.9	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	110,294.0	90,120.0	72.0	141.0	14,576.6	0.0	1,884.5	0.0	3,499.9	0.0
Department of Justice	9,611.4	3,357.0	0.0	0.0	0.0	0.0	0.0	0.0	6,254.4	0.0
Bureau of Prisons	7,917.0	1,662.6	0.0	0.0	0.0	0.0	0.0	0.0	6,254.4	0.0
Federal Bureau of Investigation	1,694.4	1,694.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,546.4	452.0	2,094.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,546.4	452.0	2,094.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	297,299.7	102,674.0	90,049.4	0.0	17,119.1	0.6	22,314.1	45,150.3	19,592.1	400.0
Federal Aviation Administration	140,762.0	40,538.0	49,983.1	0.0	2,783.5	0.6	2,354.9	45,101.9	0.0	0.0
Federal Highway Administration	51,260.8	9,539.3	9,115.8	0.0	5,306.9	0.0	7,745.2	48.5	19,505.1	0.0
Federal Motor Carrier Safety Administration	411.3	30.5	380.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	73,679.0	35,024.0	24,448.0	0.0	8,640.0	0.0	5,167.0	0.0	0.0	400.0
Federal Transit Administration	704.0	500.0	0.0	0.0	117.0	0.0	0.0	0.0	87.0	0.0
Office of the Secretary	15,603.0	13,678.0	1,675.0	0.0	250.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	12,640.3	1,125.0	4,446.6	0.0	21.7	0.0	7,047.0	0.0	0.0	0.0
Research and Innovative Technology Administration	2,239.2	2,239.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	289.2	289.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	289.2	289.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2012

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Veterans Affairs	37,170.1	37,170.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	83,700.0	10.0	83,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	711.4	711.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,975,000.0	691,069.4	3,328,926.3	226.3	190,933.3	654,498.6	100,418.4	6,292.9	79.9	2,554.8

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	76,502,436.0	23,768,063.3	45,921,103.1	1,745,823.4	1,173,214.5	1,129,678.4	542,001.0	1,277,219.6	742,353.0	202,979.7
Departments										
Department of Agriculture	204,568.9	188,972.5	0.0	0.0	14,581.7	0.0	877.9	0.0	17.7	119.1
Agricultural Marketing Service	2,643.3	2,643.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	110,256.5	102,720.0	0.0	0.0	6,521.8	0.0	877.9	0.0	17.7	119.1
Animal and Plant Health Inspection Service	37,027.2	28,967.3	0.0	0.0	8,059.9	0.0	0.0	0.0	0.0	0.0
Forest Service	54,642.0	54,642.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	427,681.9	109,503.2	229,034.5	0.0	74,717.0	1,185.0	225.8	0.0	12,780.0	236.5
National Institute of Standards and Technology	318,128.8	13,735.1	229,034.5	0.0	63,159.2	0.0	0.0	0.0	12,200.0	0.0
National Oceanic and Atmospheric Administration	56,069.0	42,284.0	0.0	0.0	11,557.8	1,185.0	225.8	0.0	580.0	236.5
U.S. Census Bureau	53,484.1	53,484.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	66,955,806.4	22,004,882.4	40,859,658.0	986,673.7	600,134.9	368,319.3	307,597.1	943,196.3	687,854.5	197,490.1
Defense Advanced Research Projects Agency	1,291,251.0	118,901.6	1,072,527.7	6,467.5	57,258.1	17,687.9	13,925.1	1,732.8	0.0	2,750.2
Department of the Air Force	27,528,736.1	3,656,753.1	22,818,896.8	185,735.8	26,102.3	126,240.8	49.7	695,142.8	18,737.5	1,077.3
Department of the Army	7,397,809.7	3,809,618.5	3,451,485.2	8,036.1	48,089.3	18,665.3	21,580.7	38,269.6	0.0	2,065.2
Department of the Navy	15,450,956.9	5,194,050.5	9,060,209.6	704,121.2	296,020.5	33,478.7	65,485.4	91,316.5	0.0	6,274.5
Other defense agencies[b]	15,287,052.7	9,225,558.7	4,456,538.8	82,313.0	172,664.7	172,246.7	206,556.2	116,734.7	669,117.0	185,322.9
Department of Defense, advanced technology	5,282,211.6	1,593,081.5	3,105,057.3	66,304.5	251,267.9	140,066.3	63,717.2	38,106.5	30.1	24,580.4
Defense Advanced Research Projects Agency	1,219,571.0	78,444.3	1,041,776.8	6,467.5	57,082.3	17,687.9	13,629.1	1,732.8	0.0	2,750.2
Department of the Air Force	646,407.5	181,662.9	438,119.8	3,494.3	15,286.0	1,421.6	49.7	6,362.7	10.6	0.0
Department of the Army	909,794.3	375,277.9	490,087.0	5.2	28,732.7	1,879.0	12,502.1	1,208.0	0.0	102.4
Department of the Navy	590,635.9	112,475.7	388,318.9	2,078.5	56,711.6	3,637.9	20,993.2	3,394.5	0.0	3,025.6
Other defense agencies[b]	1,915,802.9	845,220.7	746,754.8	54,259.0	93,455.3	115,439.9	16,543.0	25,408.4	19.6	18,702.1
Department of Defense, major systems	61,673,594.8	20,411,800.9	37,754,600.7	920,369.2	348,867.0	228,253.0	243,880.0	905,089.9	687,824.3	172,909.7
Defense Advanced Research Projects Agency	71,680.0	40,457.3	30,750.9	0.0	175.8	0.0	296.0	0.0	0.0	0.0
Department of the Air Force	26,882,328.6	3,475,090.2	22,380,777.0	182,241.5	10,816.3	124,819.2	0.0	688,780.1	18,726.9	1,077.3
Department of the Army	6,488,015.4	3,434,340.5	2,961,398.2	8,030.9	19,356.6	16,786.3	9,078.6	37,061.6	0.0	1,962.8
Department of the Navy	14,860,321.0	5,081,574.9	8,671,890.7	702,042.8	239,308.9	29,840.7	44,492.3	87,921.9	0.0	3,248.9
Other defense agencies[b]	13,371,249.8	8,380,338.0	3,709,784.0	28,054.0	79,209.4	56,806.8	190,013.1	91,326.3	669,097.4	166,620.8
Department of Education	152,195.3	6,016.2	9,293.5	0.0	99,413.3	0.0	37,472.3	0.0	0.0	0.0
Department of Energy	2,694,059.8	362,744.3	1,118,309.8	719,662.1	105,565.1	77,058.4	43,117.8	262,104.3	5,498.0	*
Advanced Research Projects Agency—Energy	52,380.0	6,750.0	22,314.0	753.8	17,239.7	1,541.5	1,930.0	1,850.9	0.0	0.0
Bonneville Power Administration	1,617.3	286.6	1,095.7	0.0	235.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	28,623.2	2,214.6	1,132.5	7,113.7	2,752.1	4,805.5	303.3	10,301.5	0.0	0.0
Energy Efficiency and Renewable Energy	652,958.0	255,130.1	0.0	24,517.3	67,095.6	60,333.4	18,554.1	227,327.5	0.0	0.0

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Environmental Management	13,400.0	1.0	998.0	6,465.8	0.0	1,005.0	0.0	4,930.2	0.0	0.0
Fossil Energy	151,822.3	48,207.9	40,553.1	0.0	17,836.7	8,245.7	22,034.8	9,446.0	5,498.0	*
National Nuclear Security Administration	1,784,747.0	50,154.1	1,052,216.5	672,299.4	406.0	1,127.3	295.6	8,248.2	0.0	0.0
Defense Programs	708,107.0	1.0	115,696.0	592,410.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,039,045.0	50,093.1	922,670.4	66,163.6	0.0	20.0	0.0	97.9	0.0	0.0
Nonproliferation and Verification	37,595.0	60.0	13,850.1	13,725.7	406.0	1,107.3	295.6	8,150.3	0.0	0.0
Nuclear Energy	8,512.0	0.0	0.0	8,512.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	68,303.9	28,587.1	0.0	0.0	24,669.9	0.0	14,026.0	0.0	1,015.0	6.0
Agency for Healthcare Research and Quality	26,748.6	26,748.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	30,932.9	1,838.5	0.0	0.0	24,347.3	0.0	3,726.0	0.0	1,015.0	6.0
Health Resources and Services Administration	10,622.5	*	0.0	0.0	322.5	0.0	10,300.0	0.0	0.0	0.0
Department of Homeland Security	386,148.4	143,751.7	115,873.9	39,105.1	31,596.1	11,514.2	12,154.9	29,646.0	0.0	2,506.5
Science and Technology Directorate	372,513.4	140,501.7	105,488.9	39,105.1	31,596.1	11,514.2	12,154.9	29,646.0	0.0	2,506.5
U.S. Coast Guard	13,635.0	3,250.0	10,385.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	26,975.1	13,953.3	11,180.1	0.0	315.0	0.0	1,526.7	0.0	0.0	0.0
Department of the Interior	120,953.9	95,092.9	3,102.2	150.2	16,162.8	0.0	2,757.3	0.0	3,688.5	0.0
Bureau of Reclamation	2,497.0	799.0	624.0	0.0	200.0	0.0	849.0	0.0	25.0	0.0
Bureau of Safety and Environmental Enforcement[c]	3,300.9	100.9	2,400.0	0.0	800.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	115,156.0	94,193.1	78.2	150.2	15,162.8	0.0	1,908.3	0.0	3,663.5	0.0
Department of Justice	9,720.4	3,379.9	0.0	0.0	0.0	0.0	0.0	0.0	6,340.5	0.0
Bureau of Prisons	8,026.0	1,685.5	0.0	0.0	0.0	0.0	0.0	0.0	6,340.5	0.0
Federal Bureau of Investigation	1,694.4	1,694.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,552.0	452.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,552.0	452.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	227,763.8	64,084.3	73,447.8	0.0	10,136.2	0.5	19,202.7	35,815.6	25,076.8	0.0
Federal Aviation Administration	115,515.0	35,698.0	39,971.3	0.0	2,207.5	0.5	1,867.7	35,770.0	0.0	0.0
Federal Highway Administration	51,000.6	6,268.4	8,830.4	0.0	5,164.2	0.0	7,415.1	45.6	23,276.8	0.0
Federal Motor Carrier Safety Administration	413.1	30.6	382.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	31,711.2	10,179.3	18,709.6	0.0	1,490.4	0.0	1,331.9	0.0	0.0	0.0
Federal Transit Administration	3,495.0	495.0	100.0	0.0	1,100.0	0.0	0.0	0.0	1,800.0	0.0
Office of the Secretary	10,000.0	8,215.0	1,785.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	13,862.0	1,431.0	3,669.0	0.0	174.0	0.0	8,588.0	0.0	0.0	0.0
Research and Innovative Technology Administration	1,767.0	1,767.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	487.3	487.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	487.3	487.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Veterans Affairs	36,243.9	36,243.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	83,200.0	10.0	83,190.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	775.0	775.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,105,000.0	709,127.5	3,415,913.3	232.3	195,922.6	671,601.1	103,042.4	6,457.3	82.0	2,621.5

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 61. Federal obligations and outlays for R&D plant, by agency: FYs 2011–13
(Dollars in thousands)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2011	2012	2013	2011	2012	2013
All agencies	4,170,695.4	4,373,145.0	4,704,717.2	4,300,838.1	4,366,761.5	4,414,219.5
Departments						
Department of Agriculture	35,545.0	15,675.1	9,000.0	118,980.4	72,661.1	20,000.0
Agricultural Research Service	18,593.8	7,000.0	2,000.0	102,029.2	64,000.0	13,000.0
Forest Service	16,951.2	8,675.1	7,000.0	16,951.2	8,661.1	7,000.0
Department of Commerce	241,718.9	232,841.0	203,053.0	322,676.3	247,138.0	243,053.0
Economic Development Administration	14,851.2	27,047.0	0.0	14,851.2	27,047.0	0.0
National Institute of Standards and Technology	90,134.8	68,703.0	60,000.0	171,092.2	83,000.0	100,000.0
National Oceanic and Atmospheric Administration	136,733.0	137,091.0	143,053.0	136,733.0	137,091.0	143,053.0
Department of Defense	170,340.6	125,543.1	124,058.7	131,915.3	138,217.4	138,987.1
Department of the Air Force	141,423.6	104,755.1	100,725.7	115,552.5	122,418.5	122,014.0
Department of the Navy	21,530.0	20,788.0	22,333.0	16,362.8	15,798.9	16,973.1
Other defense agencies[a]	7,387.0	0.0	1,000.0	0.0	0.0	0.0
Department of Energy	734,619.8	742,208.6	726,309.3	771,258.2	732,325.3	726,245.9
Energy Efficiency and Renewable Energy	39,295.0	0.0	0.0	35,864.1	0.0	0.0
Fossil Energy	19,000.0	15,954.0	12,629.0	14,770.0	12,428.0	9,838.0
National Nuclear Security Administration	128,037.8	162,672.1	160,673.3	151,612.5	156,314.7	163,400.9
Defense Programs	95,503.0	122,772.1	111,083.3	119,077.7	116,414.7	113,810.9
Naval Reactors	32,534.8	39,900.0	49,590.0	32,534.8	39,900.0	49,590.0
Office of Science	548,287.0	563,582.5	553,007.0	569,011.6	563,582.5	553,007.0
Department of Health and Human Services	79,216.5	142,422.2	144,465.7	79,216.5	142,422.2	144,465.7
Food and Drug Administration	8,490.6	8,545.5	10,588.9	8,490.6	8,545.5	10,588.9
Health Resources and Services Administration	644.8	648.7	648.7	644.8	648.7	648.7
National Institutes of Health	70,081.0	133,228.0	133,228.0	70,081.0	133,228.0	133,228.0
Department of Homeland Security	568,451.0	495,568.8	713,212.8	694,311.3	720,370.0	645,247.1
Science and Technology Directorate	567,209.0	494,318.8	711,962.8	693,069.3	719,120.0	643,997.1
U.S. Coast Guard	1,242.0	1,250.0	1,250.0	1,242.0	1,250.0	1,250.0
Department of the Interior	10,534.9	4,690.5	4,691.0	8,428.0	3,808.0	4,581.0
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	6,875.9	na	na	4,769.0	na	na
Bureau of Reclamation	3,659.0	2,061.0	2,061.0	3,659.0	2,061.0	2,061.0
Bureau of Safety and Environmental Enforcement[b]	na	2,629.5	2,630.0	na	1,747.0	2,520.0
Department of Labor	0.0	0.0	0.0	1,276.0	810.0	910.0
Occupational Safety and Health Administration	0.0	0.0	0.0	1,276.0	810.0	910.0
Department of Transportation	20,371.0	30,444.0	24,669.6	17,880.0	22,850.0	24,018.0
Federal Aviation Administration	17,652.0	27,594.0	21,652.0	17,000.0	20,000.0	21,000.0
Federal Railroad Administration	2,719.0	2,850.0	3,017.6	880.0	2,850.0	3,018.0
Other agencies						
Environmental Protection Agency	4,700.0	4,700.0	4,700.0	4,700.0	4,700.0	4,700.0
National Aeronautics and Space Administration	1,858,520.7	2,102,361.7	2,267,355.1	1,578,196.1	1,634,459.5	1,869,011.6
National Science Foundation	391,010.0	437,340.0	448,650.0	515,000.0	597,000.0	547,000.0
Smithsonian Institution	55,667.0	39,350.0	34,552.0	57,000.0	50,000.0	46,000.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 62. Federal obligations for R&D plant, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural: United States and U.S. territories: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	4,170,695.4	846,451.0	2,029,974.4	118,328.5	285,993.5	242,932.6	141,266.5	491,020.4	150.5	14,578.0
Departments										
Department of Agriculture	35,545.0	35,545.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	18,593.8	18,593.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	16,951.2	16,951.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	241,718.9	162,837.0	0.0	0.0	75,677.7	0.0	3,204.2	0.0	0.0	0.0
Economic Development Administration	14,851.2	571.2	0.0	0.0	11,075.7	0.0	3,204.2	0.0	0.0	0.0
National Institute of Standards and Technology	90,134.8	90,134.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	136,733.0	72,131.0	0.0	0.0	64,602.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	170,340.6	63,382.9	105,395.2	0.0	0.0	0.0	1,562.5	0.0	0.0	0.0
Department of the Air Force	141,423.6	34,465.9	105,395.2	0.0	0.0	0.0	1,562.5	0.0	0.0	0.0
Department of the Navy	21,530.0	21,530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other defense agencies[b]	7,387.0	7,387.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	734,619.8	950.0	55,694.7	102,005.8	600.0	232,202.8	0.0	343,166.6	0.0	0.0
Energy Efficiency and Renewable Energy	39,295.0	0.0	0.0	0.0	0.0	0.0	0.0	39,295.0	0.0	0.0
Fossil Energy	19,000.0	0.0	19,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	128,037.8	0.0	35,620.7	92,417.1	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	95,503.0	0.0	3,085.9	92,417.1	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	32,534.8	0.0	32,534.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	548,287.0	950.0	1,074.0	9,588.7	600.0	232,202.8	0.0	303,871.6	0.0	0.0
Department of Health and Human Services	79,216.5	68,393.4	0.0	0.0	9,831.1	0.0	992.0	0.0	0.0	0.0
Food and Drug Administration	8,490.6	8,490.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	644.8	644.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	70,081.0	59,257.9	0.0	0.0	9,831.1	0.0	992.0	0.0	0.0	0.0
Department of Homeland Security	568,451.0	250,512.6	146,623.6	16,322.8	3,875.3	2,475.0	3,880.5	144,761.2	0.0	0.0
Science and Technology Directorate	567,209.0	249,270.6	146,623.6	16,322.8	3,875.3	2,475.0	3,880.5	144,761.2	0.0	0.0
U.S. Coast Guard	1,242.0	1,242.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	10,534.9	1,265.8	8,189.3	0.0	1,073.8	0.0	0.0	0.0	6.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	6,875.9	0.0	6,875.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3,659.0	1,265.8	1,313.5	0.0	1,073.8	0.0	0.0	0.0	6.0	0.0
Department of Transportation	20,371.0	0.0	20,371.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	17,652.0	0.0	17,652.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2,719.0	0.0	2,719.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	4,700.0	0.0	4,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 62. Federal obligations for R&D plant, by agency and performer: FY 2011

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
National Aeronautics and Space Administration	1,858,520.7	173,519.6	1,648,788.0	0.0	13,926.7	1,134.1	7,587.1	3,092.6	0.0	10,472.6
National Science Foundation	391,010.0	34,377.7	40,212.5	0.0	181,008.8	7,120.8	124,040.3	0.0	144.5	4,105.4
Smithsonian Institution	55,667.0	55,667.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 63. Preliminary federal obligations for R&D plant, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	4,373,145.0	803,312.6	2,242,802.9	133,843.4	318,663.9	249,649.7	154,888.7	452,942.9	161.6	16,879.4
Departments										
Department of Agriculture	15,675.1	15,675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	7,000.0	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	8,675.1	8,675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	232,841.0	149,884.3	1,000.0	0.0	79,039.0	0.0	2,917.8	0.0	0.0	0.0
Economic Development Administration	27,047.0	1,040.3	0.0	0.0	23,089.0	0.0	2,917.8	0.0	0.0	0.0
National Institute of Standards and Technology	68,703.0	68,703.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	137,091.0	80,141.0	1,000.0	0.0	55,950.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	125,543.1	40,339.0	85,204.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	104,755.1	19,551.0	85,204.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	20,788.0	20,788.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	742,208.6	1,000.0	59,800.8	119,618.3	436.0	238,197.7	0.0	323,155.9	0.0	0.0
Fossil Energy	15,954.0	0.0	15,954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	162,672.1	0.0	43,053.8	119,618.3	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	122,772.1	0.0	3,153.8	119,618.3	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	39,900.0	0.0	39,900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	563,582.5	1,000.0	793.0	0.0	436.0	238,197.7	0.0	323,155.9	0.0	0.0
Department of Health and Human Services	142,422.2	121,846.9	0.0	0.0	18,689.5	0.0	1,885.9	0.0	0.0	0.0
Food and Drug Administration	8,545.5	8,545.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	648.7	648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	133,228.0	112,652.6	0.0	0.0	18,689.5	0.0	1,885.9	0.0	0.0	0.0
Department of Homeland Security	495,568.8	218,487.6	127,781.5	14,225.2	3,377.3	2,156.9	3,381.8	126,158.4	0.0	0.0
Science and Technology Directorate	494,318.8	217,237.6	127,781.5	14,225.2	3,377.3	2,156.9	3,381.8	126,158.4	0.0	0.0
U.S. Coast Guard	1,250.0	1,250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,690.5	0.0	4,690.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	2,061.0	0.0	2,061.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement[b]	2,629.5	0.0	2,629.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	30,444.0	0.0	30,444.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	27,594.0	0.0	27,594.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2,850.0	0.0	2,850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	4,700.0	0.0	4,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 63. Preliminary federal obligations for R&D plant, by agency and performer: FY 2012

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
National Aeronautics and Space Administration	2,102,361.7	178,278.7	1,884,190.8	0.0	14,665.9	1,330.7	7,979.6	3,628.5	0.0	12,287.5
National Science Foundation	437,340.0	38,451.1	44,991.1	0.0	202,456.2	7,964.5	138,723.7	0.0	161.6	4,591.9
Smithsonian Institution	39,350.0	39,350.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 64. Preliminary federal obligations for R&D plant, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	4,704,717.2	920,562.2	2,425,623.6	130,482.0	304,578.5	317,733.2	158,389.0	429,606.1	165.8	17,576.8
Departments										
Department of Agriculture	9,000.0	9,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	2,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	7,000.0	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	203,053.0	146,263.0	1,000.0	0.0	55,790.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	60,000.0	60,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	143,053.0	86,263.0	1,000.0	0.0	55,790.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	124,058.7	39,096.4	84,962.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	100,725.7	15,763.4	84,962.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	22,333.0	22,333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other defense agencies[b]	1,000.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	726,309.3	1,000.0	65,718.2	109,993.6	433.0	305,062.8	0.0	244,101.8	0.0	0.0
Fossil Energy	12,629.0	0.0	12,629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	160,673.3	0.0	52,813.2	107,860.2	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	111,083.3	0.0	3,223.2	107,860.2	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	49,590.0	0.0	49,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	553,007.0	1,000.0	276.0	2,133.4	433.0	305,062.8	0.0	244,101.8	0.0	0.0
Department of Health and Human Services	144,465.7	123,890.3	0.0	0.0	18,689.5	0.0	1,885.9	0.0	0.0	0.0
Food and Drug Administration	10,588.9	10,588.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	648.7	648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	133,228.0	112,652.6	0.0	0.0	18,689.5	0.0	1,885.9	0.0	0.0	0.0
Department of Homeland Security	713,212.8	314,135.4	184,042.5	20,488.4	4,864.3	3,106.6	4,870.8	181,704.8	0.0	0.0
Science and Technology Directorate	711,962.8	312,885.4	184,042.5	20,488.4	4,864.3	3,106.6	4,870.8	181,704.8	0.0	0.0
U.S. Coast Guard	1,250.0	1,250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,691.0	0.0	4,691.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	2,061.0	0.0	2,061.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement[c]	2,630.0	0.0	2,630.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	24,669.6	0.0	24,669.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	21,652.0	0.0	21,652.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	3,017.6	0.0	3,017.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	4,700.0	0.0	4,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 64. Preliminary federal obligations for R&D plant, by agency and performer: FY 2013

(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
National Aeronautics and Space Administration	2,267,355.1	213,179.7	2,009,685.4	0.0	17,109.8	1,393.3	9,321.2	3,799.5	0.0	12,866.2
National Science Foundation	448,650.0	39,445.4	46,154.6	0.0	207,691.9	8,170.4	142,311.2	0.0	165.8	4,710.6
Smithsonian Institution	34,552.0	34,552.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[c] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 65. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2011–13

(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	25,656,826.6	25,668,700.3	25,952,141.0
Computer sciences and mathematics	1,455,827.3	1,444,039.0	1,518,954.8
Computer sciences	961,520.1	NA	NA
Mathematics	452,814.5	NA	NA
Other computer sciences and mathematics	41,492.8	NA	NA
Engineering	2,379,337.6	2,327,853.0	2,448,422.5
Aeronautical engineering	119,698.6	NA	NA
Astronautical engineering	29,329.5	NA	NA
Chemical engineering	184,495.9	NA	NA
Civil engineering	187,910.7	NA	NA
Electrical engineering	324,236.7	NA	NA
Mechanical engineering	82,082.6	NA	NA
Metallurgy and materials engineering	287,416.8	NA	NA
Other engineering	1,164,166.7	NA	NA
Environmental sciences	1,059,823.1	1,042,159.1	1,104,642.2
Atmospheric sciences	245,677.5	NA	NA
Geological sciences	188,502.1	NA	NA
Oceanography	337,893.5	NA	NA
Other environmental sciences	287,750.0	NA	NA
Life sciences	16,370,872.2	16,441,907.1	16,395,165.3
Agricultural sciences	292,038.8	NA	NA
Biological sciences (excluding environmental biology)	8,884,668.9	NA	NA
Environmental biology	321,765.3	NA	NA
Medical sciences	5,545,428.6	NA	NA
Other life sciences	1,326,970.6	NA	NA
Physical sciences	1,864,697.2	1,844,545.8	1,837,533.3
Astronomy	164,136.2	NA	NA
Chemistry	599,864.2	NA	NA
Physics	877,141.0	NA	NA
Other physical sciences	223,555.7	NA	NA
Psychology	1,170,863.3	1,179,152.3	1,186,026.3
Biological aspects	12,132.8	NA	NA
Social aspects	11,219.1	NA	NA
Other psychological sciences	1,147,511.4	NA	NA
Social sciences	386,412.4	389,317.9	399,523.0
Anthropology	19,776.7	NA	NA
Economics	69,401.0	NA	NA
Political science	10,046.0	NA	NA

TABLE 65. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2011–13

(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
Sociology	30,142.4	NA	NA
Other social sciences	257,046.3	NA	NA
Other sciences nec	968,993.5	999,726.1	1,061,873.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FYs 2011–13.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 66. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	25,656,826.6	1,455,827.3	2,379,337.6	1,059,823.1	16,370,872.2	1,864,697.2	1,170,863.3	386,412.4	968,993.5
Departments									
Department of Agriculture	749,842.9	1,578.0	29,424.4	21,200.5	608,114.1	22,593.6	0.0	66,932.3	0.0
Agricultural Research Service	68,603.6	89.2	617.4	301.9	63,026.2	4,569.0	0.0	0.0	0.0
Economic Research Service	4,738.2	0.0	0.0	0.0	0.0	0.0	0.0	4,738.2	0.0
Foreign Agricultural Service	322.7	0.0	0.0	0.0	322.7	0.0	0.0	0.0	0.0
Forest Service	32,835.4	550.7	4,875.0	4,091.6	18,429.3	72.6	0.0	4,816.1	0.0
National Agricultural Statistics Service	938.1	938.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	642,205.0	0.0	23,932.0	16,807.0	526,336.0	17,952.0	0.0	57,178.0	0.0
Rural Business-Cooperative Service	200.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0
Department of Defense	1,749,174.2	264,967.1	697,087.9	109,535.9	312,836.0	297,487.0	19,364.2	33,887.2	14,008.9
Defense Advanced Research Projects Agency	472,113.0	84,221.8	239,948.7	7,101.1	123,218.2	15,908.3	1,714.9	0.0	0.0
Department of the Air Force	350,884.9	60,651.7	127,649.1	94.1	18,007.3	129,852.4	4,038.7	10,591.6	0.0
Department of the Army	319,748.1	40,388.0	99,380.2	9,116.0	104,900.5	56,014.9	3,816.9	6,131.7	0.0
Department of the Navy	416,901.4	48,656.3	182,819.4	84,760.8	49,379.1	23,283.2	2,673.3	12,943.3	12,386.0
Other defense agencies[a]	189,526.8	31,049.3	47,290.5	8,463.9	17,331.0	72,428.1	7,120.4	4,220.6	1,622.9
Department of Energy	925,832.6	45,443.0	126,001.1	57,770.0	129,847.2	510,804.5	0.0	0.0	55,966.8
Advanced Research Projects Agency—Energy	63,644.4	1,730.0	40,663.2	0.0	18,376.3	2,874.9	0.0	0.0	0.0
Bonneville Power Administration	350.0	0.0	350.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	4,592.9	0.0	4,592.9	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	48,036.5	0.0	47,872.1	0.0	38.7	125.8	0.0	0.0	0.0
Environmental Management	818.4	0.0	0.0	818.4	0.0	0.0	0.0	0.0	0.0
Fossil Energy	24,266.0	0.0	7,202.0	7,072.0	0.0	9,992.0	0.0	0.0	0.0
National Nuclear Security Administration	66,462.5	1,128.2	0.0	10.4	0.0	65,188.7	0.0	0.0	135.2
Defense Programs	63,231.8	0.0	0.0	0.0	0.0	63,231.8	0.0	0.0	0.0
Nonproliferation and Verification	3,230.6	1,128.2	0.0	10.4	0.0	1,956.9	0.0	0.0	135.2
Nuclear Energy	331.3	0.0	331.3	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	717,330.6	42,584.9	24,989.6	49,869.2	111,432.2	432,623.2	0.0	0.0	55,831.6
Department of Health and Human Services	17,694,424.3	127,548.9	717,747.8	224,696.9	14,663,228.9	165,040.6	1,122,693.9	131,817.5	541,649.8
Administration for Children and Families	8,974.8	0.0	0.0	0.0	0.0	0.0	0.0	8,974.8	0.0
Agency for Healthcare Research and Quality	109,871.4	3,095.5	366.2	0.0	76,620.0	0.0	100.0	12,423.0	17,266.8
Agency for Toxic Substances and Disease Registry	1,627.6	0.0	0.0	1,627.6	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	118,310.3	0.0	0.0	16,838.0	71,709.0	0.0	0.0	0.0	29,763.2
Ctrs. for Medicare and Medicaid Services	908.0	0.0	0.0	0.0	908.0	0.0	0.0	0.0	0.0
Food and Drug Administration	5,413.5	0.0	0.0	0.0	5,413.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	17,430,924.6	124,453.5	717,381.5	206,231.3	14,498,200.7	165,040.6	1,122,593.9	102,403.3	494,619.8

TABLE 66. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Office of the Secretary	3,397.4	0.0	0.0	0.0	0.0	0.0	0.0	3,397.4	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,397.4	0.0	0.0	0.0	0.0	0.0	0.0	3,397.4	0.0
Department of Homeland Security	54,826.8	6,498.2	6,821.7	5,327.5	17,939.6	3,298.0	526.5	4,446.8	9,968.5
Science and Technology Directorate	54,732.8	6,404.2	6,821.7	5,327.5	17,939.6	3,298.0	526.5	4,446.8	9,968.5
U.S. Coast Guard	94.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	381,519.3	4,964.9	100,713.5	99,608.5	19,014.6	130,237.1	999.1	96.7	25,885.0
National Science Foundation	4,101,206.4	1,004,827.2	701,541.2	541,684.0	619,891.7	735,236.3	27,279.5	149,231.9	321,514.5

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 67. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	25,668,700.3	1,444,039.0	2,327,853.0	1,042,159.1	16,441,907.1	1,844,545.8	1,179,152.3	389,317.9	999,726.1
Departments									
Department of Agriculture	865,872.9	1,041.3	34,800.4	29,593.4	701,212.7	25,290.0	0.0	73,935.1	0.0
Agricultural Research Service	54,269.8	70.6	488.4	238.8	49,857.7	3,614.4	0.0	0.0	0.0
Economic Research Service	3,179.0	0.0	0.0	0.0	0.0	0.0	0.0	3,179.0	0.0
Foreign Agricultural Service	322.7	0.0	0.0	0.0	322.7	0.0	0.0	0.0	0.0
Forest Service	32,835.4	550.7	4,875.0	4,091.6	18,429.3	72.6	0.0	4,816.1	0.0
National Agricultural Statistics Service	420.0	420.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	774,846.0	0.0	29,437.0	25,263.0	632,603.0	21,603.0	0.0	65,940.0	0.0
Department of Defense	1,668,366.3	276,875.8	682,529.5	103,109.8	254,042.6	282,882.6	17,431.0	28,901.2	22,593.7
Defense Advanced Research Projects Agency	569,081.1	101,398.2	289,487.6	9,282.8	143,168.5	20,242.9	2,341.5	0.0	3,159.8
Department of the Air Force	338,641.6	66,237.2	101,432.2	76.3	26,402.6	135,117.4	3,903.6	5,472.4	0.0
Department of the Army	221,017.4	38,403.7	81,058.9	9,053.5	24,035.8	58,083.8	4,487.9	5,893.7	0.0
Department of the Navy	431,627.0	58,498.7	187,324.1	83,625.6	54,187.7	14,951.2	3,981.4	13,157.9	15,900.3
Other defense agencies[a]	107,999.2	12,338.0	23,226.7	1,071.6	6,248.1	54,487.4	2,716.5	4,377.2	3,533.6
Department of Energy	758,686.2	15,854.3	80,530.0	41,559.7	37,340.8	497,392.7	0.0	0.0	86,008.6
Advanced Research Projects Agency—Energy	9,511.4	0.0	3,452.9	0.0	595.5	0.0	0.0	0.0	5,463.0
Bonneville Power Administration	300.0	0.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,057.8	0.0	3,057.8	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	45,335.3	0.0	44,640.8	0.0	163.4	531.1	0.0	0.0	0.0
Fossil Energy	17,522.4	0.0	5,200.5	5,106.7	0.0	7,215.3	0.0	0.0	0.0
National Nuclear Security Administration	65,778.6	1,128.5	50.0	559.8	0.0	64,040.3	0.0	0.0	0.0
Defense Programs	62,083.0	0.0	0.0	0.0	0.0	62,083.0	0.0	0.0	0.0
Nonproliferation and Verification	3,695.6	1,128.5	50.0	559.8	0.0	1,957.3	0.0	0.0	0.0
Nuclear Energy	7,151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,151.0
Office of Science	610,029.6	14,725.8	23,828.0	35,893.2	36,582.0	425,606.0	0.0	0.0	73,394.6
Department of Health and Human Services	17,829,353.3	128,660.6	724,231.2	219,601.3	14,790,745.5	166,532.6	1,132,841.5	132,380.6	534,359.9
Administration for Children and Families	9,163.3	0.0	0.0	0.0	0.0	0.0	0.0	9,163.3	0.0
Agency for Healthcare Research and Quality	109,397.5	3,082.1	364.7	0.0	76,289.5	0.0	99.6	12,369.4	17,192.3
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	97,635.4	0.0	0.0	10,505.7	69,053.2	0.0	0.0	0.0	18,076.6
Ctrs. for Medicare and Medicaid Services	530.0	0.0	0.0	0.0	530.0	0.0	0.0	0.0	0.0
Food and Drug Administration	5,233.2	0.0	0.0	0.0	5,233.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	17,588,497.1	125,578.5	723,866.5	208,095.6	14,629,261.8	166,532.6	1,132,742.0	103,329.0	499,091.1
Office of the Secretary	2,900.0	0.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	2,900.0	0.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0

TABLE 67. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	47,699.3	5,581.2	5,945.1	4,642.9	15,634.3	2,874.2	458.8	3,875.4	8,687.5
Science and Technology Directorate	47,699.3	5,581.2	5,945.1	4,642.9	15,634.3	2,874.2	458.8	3,875.4	8,687.5
Other agencies									
National Aeronautics and Space Administration	371,443.2	4,714.9	95,016.1	97,859.5	18,301.9	128,807.1	939.7	96.2	25,707.8
National Science Foundation	4,127,279.2	1,011,311.0	704,800.7	545,792.6	624,629.4	740,766.6	27,481.2	150,129.3	322,368.5

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 68. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	25,952,141.0	1,518,954.8	2,448,422.5	1,104,642.2	16,395,165.3	1,837,533.3	1,186,026.3	399,523.0	1,061,873.6
Departments									
Department of Agriculture	722,924.3	1,047.1	30,471.3	22,919.9	578,897.2	22,790.8	0.0	66,798.1	0.0
Agricultural Research Service	58,696.2	76.3	528.3	258.3	53,924.2	3,909.2	0.0	0.0	0.0
Economic Research Service	2,966.0	0.0	0.0	0.0	0.0	0.0	0.0	2,966.0	0.0
Foreign Agricultural Service	322.7	0.0	0.0	0.0	322.7	0.0	0.0	0.0	0.0
Forest Service	32,835.4	550.7	4,875.0	4,091.6	18,429.3	72.6	0.0	4,816.1	0.0
National Agricultural Statistics Service	420.0	420.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	627,684.0	0.0	25,068.0	18,570.0	506,221.0	18,809.0	0.0	59,016.0	0.0
Department of Defense	1,774,764.7	265,919.0	709,718.3	113,859.2	301,893.5	298,045.7	22,443.5	38,256.2	24,629.3
Defense Advanced Research Projects Agency	553,859.0	98,659.2	282,561.5	9,193.0	138,164.3	19,935.4	2,339.0	0.0	3,006.6
Department of the Air Force	386,637.2	57,190.8	136,534.8	122.0	35,123.0	140,247.4	11,209.6	6,209.6	0.0
Department of the Army	236,740.2	42,545.7	85,142.7	9,514.5	26,061.4	61,960.0	4,823.1	6,692.9	0.0
Department of the Navy	454,627.9	51,772.2	178,880.9	92,680.4	83,835.9	12,273.0	1,364.8	13,955.8	19,865.0
Other defense agencies[a]	142,900.3	15,751.1	26,598.5	2,349.2	18,708.8	63,630.0	2,707.0	11,398.0	1,757.7
Department of Energy	843,884.3	50,334.5	136,101.4	69,839.3	27,967.0	423,992.4	0.0	0.0	135,649.6
Advanced Research Projects Agency—Energy	46,611.0	1,150.1	32,900.9	0.0	5,633.0	2,881.5	0.0	0.0	4,045.6
Bonneville Power Administration	725.0	0.0	725.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,505.5	0.0	5,505.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	75,935.0	0.0	75,935.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	16,314.1	0.0	4,841.9	4,754.6	0.0	6,717.6	0.0	0.0	0.0
National Nuclear Security Administration	63,945.6	1,128.5	50.0	559.8	0.0	62,207.3	0.0	0.0	0.0
Defense Programs	60,250.0	0.0	0.0	0.0	0.0	60,250.0	0.0	0.0	0.0
Nonproliferation and Verification	3,695.6	1,128.5	50.0	559.8	0.0	1,957.3	0.0	0.0	0.0
Nuclear Energy	18,578.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,578.0
Office of Science	616,270.0	48,056.0	16,143.0	64,525.0	22,334.0	352,186.0	0.0	0.0	113,026.0
Department of Health and Human Services	17,805,299.1	128,395.3	724,337.9	209,136.1	14,787,663.8	166,565.0	1,133,052.7	131,530.3	524,618.0
Administration for Children and Families	9,355.7	0.0	0.0	0.0	0.0	0.0	0.0	9,355.7	0.0
Agency for Healthcare Research and Quality	99,112.7	2,792.3	330.4	0.0	69,117.2	0.0	90.2	11,206.5	15,576.0
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	78,968.4	0.0	0.0	0.0	69,114.7	0.0	0.0	0.0	9,853.8
Ctrs. for Medicare and Medicaid Services	726.0	0.0	0.0	0.0	726.0	0.0	0.0	0.0	0.0
Food and Drug Administration	6,217.8	0.0	0.0	0.0	6,217.8	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	17,591,921.8	125,602.9	724,007.5	208,136.1	14,632,110.3	166,565.0	1,132,962.5	103,349.1	499,188.3
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0

TABLE 68. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	68,700.8	8,038.6	8,562.6	6,687.1	22,517.9	4,139.7	660.9	5,581.7	12,512.5
Science and Technology Directorate	68,700.8	8,038.6	8,562.6	6,687.1	22,517.9	4,139.7	660.9	5,581.7	12,512.5
Other agencies									
National Aeronautics and Space Administration	410,926.1	5,125.4	102,800.6	108,933.6	20,086.7	144,030.7	1,014.4	108.0	28,826.6
National Science Foundation	4,325,641.7	1,060,095.0	736,430.4	573,267.0	656,139.2	777,969.1	28,854.7	157,248.7	335,637.7

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 69. Federal obligations for research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,455,827.3	961,520.1	452,814.5	41,492.8
Departments				
Department of Agriculture	1,578.0	303.7	1,274.3	0.0
Agricultural Research Service	89.2	0.0	89.2	0.0
Forest Service	550.7	303.7	247.0	0.0
National Agricultural Statistics Service	938.1	0.0	938.1	0.0
Department of Defense	264,967.1	159,527.6	69,488.5	35,951.0
Defense Advanced Research Projects Agency	84,221.8	73,834.6	10,318.8	68.5
Department of the Air Force	60,651.7	24,578.7	22,085.3	13,987.8
Department of the Army	40,388.0	22,233.9	17,270.8	883.3
Department of the Navy	48,656.3	20,602.5	8,656.5	19,397.2
Other defense agencies[a]	31,049.3	18,277.9	11,157.1	1,614.3
Department of Energy	45,443.0	15,303.5	29,911.8	227.7
Advanced Research Projects Agency—Energy	1,730.0	650.0	1,080.0	0.0
National Nuclear Security Administration	1,128.2	0.0	900.4	227.7
Nonproliferation and Verification	1,128.2	0.0	900.4	227.7
Office of Science	42,584.9	14,653.5	27,931.3	0.0
Department of Health and Human Services	127,548.9	2,682.2	124,453.5	413.3
Agency for Healthcare Research and Quality	3,095.5	2,682.2	0.0	413.3
National Institutes of Health	124,453.5	0.0	124,453.5	0.0
Department of Homeland Security	6,498.2	788.1	2,671.8	3,038.3
Science and Technology Directorate	6,404.2	694.1	2,671.8	3,038.3
U.S. Coast Guard	94.0	94.0	0.0	0.0
Other agencies				
National Aeronautics and Space Administration	4,964.9	2,873.2	229.3	1,862.4
National Science Foundation	1,004,827.2	780,041.8	224,785.4	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 70. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	2,379,337.6	119,698.6	29,329.5	184,495.9	187,910.7	324,236.7	82,082.6	287,416.8	1,164,166.7
Departments									
Department of Agriculture	29,424.4	0.0	0.0	488.7	96.0	54.9	68.6	0.0	28,716.2
Agricultural Research Service	617.4	0.0	0.0	308.7	96.0	54.9	68.6	0.0	89.2
Forest Service	4,875.0	0.0	0.0	180.0	0.0	0.0	0.0	0.0	4,695.0
National Institute of Food and Agriculture	23,932.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23,932.0
Department of Defense	697,087.9	55,885.8	6,515.3	27,337.8	10,049.6	206,345.1	62,229.6	82,113.1	246,611.7
Defense Advanced Research Projects Agency	239,948.7	0.0	0.0	0.0	0.0	59,155.6	1,449.8	19,957.6	159,385.7
Department of the Air Force	127,649.1	36,620.7	6,264.9	67.2	0.0	39,165.7	11,298.7	9,995.8	24,236.0
Department of the Army	99,380.2	9,190.9	0.0	2,970.6	3,972.0	33,824.9	22,982.2	23,484.7	2,955.0
Department of the Navy	182,819.4	5,190.0	250.4	17,926.9	241.6	55,629.5	18,954.0	26,121.5	58,505.5
Other defense agencies[a]	47,290.5	4,884.2	0.0	6,373.2	5,836.0	18,569.4	7,544.9	2,553.4	1,529.5
Department of Energy	126,001.1	0.0	0.0	10,163.6	9,502.7	24,821.7	9,499.3	37,140.3	34,873.5
Advanced Research Projects Agency—Energy	40,663.2	0.0	0.0	2,961.6	0.0	13,754.2	9,358.8	12,088.6	2,500.0
Bonneville Power Administration	350.0	0.0	0.0	0.0	0.0	165.0	85.0	0.0	100.0
Electricity Delivery and Energy Reliability	4,592.9	0.0	0.0	0.0	0.0	4,592.9	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	47,872.1	0.0	0.0	0.0	9,502.7	6,309.6	55.4	62.2	31,942.2
Fossil Energy	7,202.0	0.0	0.0	7,202.0	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	331.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Office of Science	24,989.6	0.0	0.0	0.0	0.0	0.0	0.0	24,989.6	0.0
Department of Health and Human Services	717,747.8	0.0	0.0	0.0	0.0	0.0	294.7	31,458.8	685,994.3
Agency for Healthcare Research and Quality	366.2	0.0	0.0	0.0	0.0	0.0	294.7	0.0	71.5
National Institutes of Health	717,381.5	0.0	0.0	0.0	0.0	0.0	0.0	31,458.8	685,922.7
Department of Homeland Security	6,821.7	0.0	0.0	0.0	1,112.6	2,752.8	0.0	64.9	2,891.4
Science and Technology Directorate	6,821.7	0.0	0.0	0.0	1,112.6	2,752.8	0.0	64.9	2,891.4
Other agencies									
National Aeronautics and Space Administration	100,713.5	63,812.8	22,814.2	417.0	36.8	2,153.6	1,493.1	2,144.8	7,841.0
National Science Foundation	701,541.2	0.0	0.0	146,088.8	167,112.9	88,108.7	8,497.3	134,494.9	157,238.6

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 71. Federal obligations for research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	1,059,823.1	245,677.5	188,502.1	337,893.5	287,750.0
Departments					
Department of Agriculture	21,200.5	18,951.3	6.9	0.0	2,242.3
Agricultural Research Service	301.9	295.0	6.9	0.0	0.0
Forest Service	4,091.6	1,849.3	0.0	0.0	2,242.3
National Institute of Food and Agriculture	16,807.0	16,807.0	0.0	0.0	0.0
Department of Defense	109,535.9	14,203.3	6,489.2	83,497.6	5,345.7
Defense Advanced Research Projects Agency	7,101.1	5,564.0	0.0	1,537.0	0.0
Department of the Air Force	94.1	40.3	53.8	0.0	0.0
Department of the Army	9,116.0	2,009.8	4,640.2	0.0	2,466.0
Department of the Navy	84,760.8	3,762.3	185.7	77,933.1	2,879.7
Other defense agencies[a]	8,463.9	2,826.8	1,609.5	4,027.5	0.0
Department of Energy	57,770.0	36,622.1	13,257.4	0.0	7,890.4
Environmental Management	818.4	0.0	0.0	0.0	818.4
Fossil Energy	7,072.0	0.0	0.0	0.0	7,072.0
National Nuclear Security Administration	10.4	10.4	0.0	0.0	0.0
Nonproliferation and Verification	10.4	10.4	0.0	0.0	0.0
Office of Science	49,869.2	36,611.7	13,257.4	0.0	0.0
Department of Health and Human Services	224,696.9	0.0	0.0	0.0	224,696.9
Agency for Toxic Substances and Disease Registry	1,627.6	0.0	0.0	0.0	1,627.6
Ctrs. for Disease Control and Prevention	16,838.0	0.0	0.0	0.0	16,838.0
National Institutes of Health	206,231.3	0.0	0.0	0.0	206,231.3
Department of Homeland Security	5,327.5	0.0	0.0	2,662.6	2,664.9
Science and Technology Directorate	5,327.5	0.0	0.0	2,662.6	2,664.9
Other agencies					
National Aeronautics and Space Administration	99,608.5	61,824.5	22,887.0	7,193.4	7,703.6
National Science Foundation	541,684.0	114,076.2	145,861.6	244,539.9	37,206.2

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 72. Federal obligations for research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	16,370,872.2	292,038.8	8,884,668.9	321,765.3	5,545,428.6	1,326,970.6
Departments						
Department of Agriculture	608,114.1	266,657.9	175,036.1	162,085.6	4,018.2	316.3
Agricultural Research Service	63,026.2	48,962.4	4,390.6	8,554.9	1,118.2	0.0
Foreign Agricultural Service	322.7	322.7	0.0	0.0	0.0	0.0
Forest Service	18,429.3	173.8	8,474.5	9,464.8	0.0	316.3
National Institute of Food and Agriculture	526,336.0	217,199.0	162,171.0	144,066.0	2,900.0	0.0
Department of Defense	312,836.0	2,820.8	75,232.9	7,847.6	205,025.2	21,909.5
Defense Advanced Research Projects Agency	123,218.2	0.0	17,656.8	0.0	105,561.3	0.0
Department of the Air Force	18,007.3	0.0	7,652.0	0.0	0.0	10,355.3
Department of the Army	104,900.5	0.0	16,445.1	0.0	87,604.4	851.0
Department of the Navy	49,379.1	0.0	25,833.9	7,847.6	5,231.9	10,465.8
Other defense agencies[b]	17,331.0	2,820.8	7,645.2	0.0	6,627.7	237.4
Department of Energy	129,847.2	18,376.3	111,470.9	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	18,376.3	18,376.3	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	38.7	0.0	38.7	0.0	0.0	0.0
Office of Science	111,432.2	0.0	111,432.2	0.0	0.0	0.0
Department of Health and Human Services	14,663,228.9	0.0	8,040,049.8	0.0	5,331,489.4	1,291,689.7
Agency for Healthcare Research and Quality	76,620.0	0.0	0.0	0.0	75,243.5	1,376.5
Ctrs. for Disease Control and Prevention	71,709.0	0.0	3,600.0	0.0	3,413.0	64,696.1
Ctrs. for Medicare and Medicaid Services	908.0	0.0	0.0	0.0	0.0	908.0
Food and Drug Administration	5,413.5	0.0	5,413.5	0.0	0.0	0.0
Health Resources and Services Administration	10,377.7	0.0	0.0	0.0	10,377.7	0.0
National Institutes of Health	14,498,200.7	0.0	8,031,036.4	0.0	5,242,455.2	1,224,709.1
Department of Homeland Security	17,939.6	4,077.5	3,357.9	0.0	0.0	10,504.3
Science and Technology Directorate	17,939.6	4,077.5	3,357.9	0.0	0.0	10,504.3
Other agencies						
National Aeronautics and Space Administration	19,014.6	106.3	10,613.6	848.2	4,895.7	2,550.9
National Science Foundation	619,891.7	0.0	468,907.8	150,983.9	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 73. Federal obligations for research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,864,697.2	164,136.2	599,864.2	877,141.0	223,555.7
Departments					
Department of Agriculture	22,593.6	0.0	22,381.0	212.7	0.0
Agricultural Research Service	4,569.0	0.0	4,356.3	212.7	0.0
Forest Service	72.6	0.0	72.6	0.0	0.0
National Institute of Food and Agriculture	17,952.0	0.0	17,952.0	0.0	0.0
Department of Defense	297,487.0	201.6	84,817.9	171,399.8	41,067.7
Defense Advanced Research Projects Agency	15,908.3	0.0	0.0	8,949.7	6,958.6
Department of the Air Force	129,852.4	201.6	34,062.8	81,435.5	14,152.5
Department of the Army	56,014.9	0.0	29,644.5	21,368.6	5,001.8
Department of the Navy	23,283.2	0.0	12,063.8	7,352.8	3,866.5
Other defense agencies[a]	72,428.1	0.0	9,046.7	52,293.1	11,088.3
Department of Energy	510,804.5	0.0	106,335.6	403,795.2	673.7
Advanced Research Projects Agency—Energy	2,874.9	0.0	2,874.9	0.0	0.0
Energy Efficiency and Renewable Energy	125.8	0.0	125.8	0.0	0.0
Fossil Energy	9,992.0	0.0	9,992.0	0.0	0.0
National Nuclear Security Administration	65,188.7	0.0	0.0	64,515.0	673.7
Defense Programs	63,231.8	0.0	0.0	63,231.8	0.0
Nonproliferation and Verification	1,956.9	0.0	0.0	1,283.2	673.7
Office of Science	432,623.2	0.0	93,343.0	339,280.2	0.0
Department of Health and Human Services	165,040.6	0.0	157,003.6	0.0	8,037.1
National Institutes of Health	165,040.6	0.0	157,003.6	0.0	8,037.1
Department of Homeland Security	3,298.0	0.0	1,121.6	0.0	2,176.4
Science and Technology Directorate	3,298.0	0.0	1,121.6	0.0	2,176.4
Other agencies					
National Aeronautics and Space Administration	130,237.1	81,176.2	5,788.4	37,408.2	5,864.3
National Science Foundation	735,236.3	82,758.4	222,416.1	264,325.2	165,736.6

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 74. Federal obligations for research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	1,170,863.3	12,132.8	11,219.1	1,147,511.4
Departments				
Department of Defense	19,364.2	4,714.8	3,812.2	10,837.2
Defense Advanced Research Projects Agency	1,714.9	0.0	0.0	1,714.9
Department of the Air Force	4,038.7	0.0	0.0	4,038.7
Department of the Army	3,816.9	0.0	0.0	3,816.9
Department of the Navy	2,673.3	1,888.0	785.3	0.0
Other defense agencies[a]	7,120.4	2,826.8	3,026.8	1,266.7
Department of Health and Human Services	1,122,693.9	0.0	0.0	1,122,693.9
Agency for Healthcare Research and Quality	100.0	0.0	0.0	100.0
National Institutes of Health	1,122,593.9	0.0	0.0	1,122,593.9
Department of Homeland Security	526.5	0.0	359.8	166.8
Science and Technology Directorate	526.5	0.0	359.8	166.8
Other agencies				
National Aeronautics and Space Administration	999.1	31.6	466.0	501.5
National Science Foundation	27,279.5	7,386.4	6,581.1	13,312.1

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 75. Federal obligations for research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	386,412.4	19,776.7	69,401.0	10,046.0	30,142.4	257,046.3
Departments						
Department of Agriculture	66,932.3	68.0	48,090.1	0.0	16,978.9	1,795.2
Economic Research Service	4,738.2	0.0	4,738.2	0.0	0.0	0.0
Forest Service	4,816.1	68.0	2,518.0	0.0	434.9	1,795.2
National Institute of Food and Agriculture	57,178.0	0.0	40,634.0	0.0	16,544.0	0.0
Rural Business-Cooperative Service	200.0	0.0	200.0	0.0	0.0	0.0
Department of Defense	33,887.2	0.0	0.0	0.0	6,760.9	27,126.3
Department of the Air Force	10,591.6	0.0	0.0	0.0	0.0	10,591.6
Department of the Army	6,131.7	0.0	0.0	0.0	0.0	6,131.7
Department of the Navy	12,943.3	0.0	0.0	0.0	2,946.9	9,996.4
Other defense agencies[a]	4,220.6	0.0	0.0	0.0	3,814.0	406.6
Department of Health and Human Services	131,817.5	40.5	3,112.8	0.0	40.3	128,623.9
Administration for Children and Families	8,974.8	0.0	0.0	0.0	0.0	8,974.8
Agency for Healthcare Research and Quality	12,423.0	40.5	3,112.8	0.0	40.3	9,229.4
Health Resources and Services Administration	4,619.0	0.0	0.0	0.0	0.0	4,619.0
National Institutes of Health	102,403.3	0.0	0.0	0.0	0.0	102,403.3
Office of the Secretary	3,397.4	0.0	0.0	0.0	0.0	3,397.4
Office of the Assistant Secretary, Planning and Evaluation	3,397.4	0.0	0.0	0.0	0.0	3,397.4
Department of Homeland Security	4,446.8	0.0	0.0	0.0	485.9	3,961.0
Science and Technology Directorate	4,446.8	0.0	0.0	0.0	485.9	3,961.0
Other agencies						
National Aeronautics and Space Administration	96.7	0.0	0.0	0.0	34.9	61.8
National Science Foundation	149,231.9	19,668.2	18,198.0	10,046.0	5,841.6	95,478.1

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 76. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2011–13
(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	15,720,038.9	15,724,845.6	15,989,676.3
Computer sciences and mathematics	1,237,479.4	1,233,317.1	1,308,681.7
Computer sciences	817,428.4	NA	NA
Mathematics	381,245.1	NA	NA
Other computer sciences and mathematics	38,806.0	NA	NA
Engineering	1,454,761.5	1,469,352.1	1,552,285.8
Aeronautical engineering	77,611.0	NA	NA
Astronautical engineering	8,812.4	NA	NA
Chemical engineering	134,663.4	NA	NA
Civil engineering	137,506.7	NA	NA
Electrical engineering	189,505.0	NA	NA
Mechanical engineering	51,541.6	NA	NA
Metallurgy and materials engineering	231,465.2	NA	NA
Other engineering	623,656.3	NA	NA
Environmental sciences	895,652.5	885,320.2	953,713.5
Atmospheric sciences	223,771.5	NA	NA
Geological sciences	187,597.4	NA	NA
Oceanography	317,876.1	NA	NA
Other environmental sciences	166,407.4	NA	NA
Life sciences	8,971,551.5	8,966,779.7	8,945,390.7
Agricultural sciences	120,537.0	NA	NA
Biological sciences (excluding environmental biology)	5,053,423.0	NA	NA
Environmental biology	221,597.2	NA	NA
Medical sciences	2,881,626.8	NA	NA
Other life sciences	694,367.4	NA	NA
Physical sciences	1,652,074.8	1,639,390.4	1,626,473.5
Astronomy	159,360.1	NA	NA
Chemistry	498,656.6	NA	NA
Physics	791,465.4	NA	NA
Other physical sciences	202,592.8	NA	NA
Psychology	646,025.5	650,088.0	655,581.1
Biological aspects	9,173.1	NA	NA
Social aspects	7,615.5	NA	NA
Other psychological sciences	629,236.9	NA	NA
Social sciences	245,280.9	244,269.0	256,198.3
Anthropology	19,468.7	NA	NA
Economics	31,518.3	NA	NA
Political science	9,114.3	NA	NA
Sociology	13,636.0	NA	NA
Other social sciences	171,543.6	NA	NA
Other sciences nec	617,212.8	636,329.2	691,351.8

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FYs 2011–13.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 77. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	15,720,038.9	1,237,479.4	1,454,761.5	895,652.5	8,971,551.5	1,652,074.8	646,025.5	245,280.9	617,212.8
Departments									
Department of Agriculture	311,593.7	99.5	12,623.7	8,130.0	256,594.7	9,971.0	0.0	24,174.7	0.0
Agricultural Research Service	38,113.1	49.5	343.0	167.7	35,014.5	2,538.3	0.0	0.0	0.0
Foreign Agricultural Service	90.3	0.0	0.0	0.0	90.3	0.0	0.0	0.0	0.0
Forest Service	10,086.2	50.0	2,468.7	1,071.3	5,691.8	72.6	0.0	731.7	0.0
National Institute of Food and Agriculture	263,304.0	0.0	9,812.0	6,891.0	215,798.0	7,360.0	0.0	23,443.0	0.0
Department of Defense	1,084,054.7	181,137.5	383,393.6	86,711.8	121,460.2	261,007.4	12,064.3	27,280.8	10,999.1
Defense Advanced Research Projects Agency	190,928.3	33,605.8	109,751.7	5,564.0	29,885.7	10,406.2	1,714.9	0.0	0.0
Department of the Air Force	291,484.5	56,037.7	83,460.0	0.0	17,985.9	119,515.7	3,893.6	10,591.6	0.0
Department of the Army	191,928.5	38,046.2	67,557.1	7,595.0	23,039.8	47,042.9	2,515.8	6,131.7	0.0
Department of the Navy	297,926.7	41,264.6	98,753.9	70,742.6	40,274.4	23,067.8	2,673.3	10,150.9	10,999.1
Other defense agencies[a]	111,786.7	12,183.1	23,870.9	2,810.2	10,274.4	60,974.8	1,266.7	406.6	0.0
Department of Energy	724,781.2	43,713.0	25,696.4	49,879.6	111,470.9	438,189.7	0.0	0.0	55,831.6
Bonneville Power Administration	300.0	0.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	406.8	0.0	406.8	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	164.4	0.0	0.0	0.0	38.7	125.8	0.0	0.0	0.0
Fossil Energy	4,105.9	0.0	0.0	0.0	0.0	4,105.9	0.0	0.0	0.0
National Nuclear Security Administration	2,473.4	1,128.2	0.0	10.4	0.0	1,334.8	0.0	0.0	0.0
Nonproliferation and Verification	2,473.4	1,128.2	0.0	10.4	0.0	1,334.8	0.0	0.0	0.0
Office of Science	717,330.6	42,584.9	24,989.6	49,869.2	111,432.2	432,623.2	0.0	0.0	55,831.6
Department of Health and Human Services	9,439,257.6	67,204.9	387,386.0	117,354.2	7,832,441.3	89,121.9	606,200.7	55,297.8	284,250.7
Ctrs. for Disease Control and Prevention	26,558.3	0.0	0.0	5,989.3	3,413.0	0.0	0.0	0.0	17,156.1
National Institutes of Health	9,412,699.3	67,204.9	387,386.0	111,364.9	7,829,028.4	89,121.9	606,200.7	55,297.8	267,094.7
Department of Homeland Security	48,648.8	6,404.2	5,534.2	5,327.5	16,800.4	1,110.5	359.8	3,143.8	9,968.5
Science and Technology Directorate	48,648.8	6,404.2	5,534.2	5,327.5	16,800.4	1,110.5	359.8	3,143.8	9,968.5
Other agencies									
National Aeronautics and Space Administration	314,232.0	3,117.6	58,133.8	89,244.8	13,940.5	123,687.4	553.3	96.7	25,458.0
National Science Foundation	3,797,470.9	935,802.7	581,993.8	539,004.6	618,843.6	728,986.9	26,847.4	135,287.2	230,704.8

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 78. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	15,724,845.6	1,233,317.1	1,469,352.1	885,320.2	8,966,779.7	1,639,390.4	650,088.0	244,269.0	636,329.2
Departments									
Department of Agriculture	358,013.5	89.2	14,809.1	11,562.0	292,848.9	10,937.6	0.0	27,766.7	0.0
Agricultural Research Service	30,149.9	39.2	271.3	132.7	27,698.7	2,008.0	0.0	0.0	0.0
Foreign Agricultural Service	90.3	0.0	0.0	0.0	90.3	0.0	0.0	0.0	0.0
Forest Service	10,086.2	50.0	2,468.7	1,071.3	5,691.8	72.6	0.0	731.7	0.0
National Institute of Food and Agriculture	317,687.0	0.0	12,069.0	10,358.0	259,368.0	8,857.0	0.0	27,035.0	0.0
Department of Defense	1,108,430.1	198,353.7	392,744.6	81,512.0	134,545.0	250,058.2	14,631.0	21,921.2	14,664.3
Defense Advanced Research Projects Agency	260,689.4	45,884.7	149,852.5	7,597.0	40,805.3	14,208.4	2,341.5	0.0	0.0
Department of the Air Force	276,012.3	59,867.3	55,013.0	0.0	26,194.4	125,561.5	3,903.6	5,472.4	0.0
Department of the Army	179,682.8	36,417.7	63,500.3	7,376.5	19,306.5	44,176.0	3,012.0	5,893.7	0.0
Department of the Navy	303,706.6	46,768.3	107,392.7	65,466.8	42,402.3	14,496.2	3,981.4	8,818.0	14,380.9
Other defense agencies[a]	88,339.1	9,415.7	16,986.0	1,071.6	5,836.5	51,616.1	1,392.5	1,737.2	283.4
Department of Energy	617,305.6	15,854.3	24,421.2	36,453.0	36,745.4	430,437.1	0.0	0.0	73,394.6
Bonneville Power Administration	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	443.2	0.0	443.2	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	694.5	0.0	0.0	0.0	163.4	531.1	0.0	0.0	0.0
Fossil Energy	2,965.0	0.0	0.0	0.0	0.0	2,965.0	0.0	0.0	0.0
National Nuclear Security Administration	3,073.2	1,128.5	50.0	559.8	0.0	1,335.0	0.0	0.0	0.0
Nonproliferation and Verification	3,073.2	1,128.5	50.0	559.8	0.0	1,335.0	0.0	0.0	0.0
Office of Science	610,029.6	14,725.8	23,828.0	35,893.2	36,582.0	425,606.0	0.0	0.0	73,394.6
Department of Health and Human Services	9,459,375.4	67,353.3	388,241.5	119,195.8	7,850,534.0	89,318.8	607,539.5	55,419.9	281,772.7
Ctrs. for Disease Control and Prevention	25,889.1	0.0	0.0	7,585.0	4,216.0	0.0	0.0	0.0	14,088.1
National Institutes of Health	9,433,486.3	67,353.3	388,241.5	111,610.9	7,846,318.0	89,318.8	607,539.5	55,419.9	267,684.5
Department of Homeland Security	42,397.1	5,581.2	4,823.0	4,642.9	14,641.4	967.8	313.5	2,739.8	8,687.5
Science and Technology Directorate	42,397.1	5,581.2	4,823.0	4,642.9	14,641.4	967.8	313.5	2,739.8	8,687.5
Other agencies									
National Aeronautics and Space Administration	312,716.0	3,102.6	57,853.3	88,814.2	13,873.2	123,090.6	550.6	96.2	25,335.2
National Science Foundation	3,826,608.0	942,982.9	586,459.3	543,140.2	623,591.8	734,580.3	27,053.4	136,325.2	232,475.0

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 79. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	15,989,676.3	1,308,681.7	1,552,285.8	953,713.5	8,945,390.7	1,626,473.5	655,581.1	256,198.3	691,351.8
Departments									
Department of Agriculture	300,135.6	92.4	13,040.2	8,828.8	243,290.1	9,956.4	0.0	24,927.7	0.0
Agricultural Research Service	32,609.0	42.4	293.5	143.5	29,957.9	2,171.8	0.0	0.0	0.0
Foreign Agricultural Service	90.3	0.0	0.0	0.0	90.3	0.0	0.0	0.0	0.0
Forest Service	10,086.2	50.0	2,468.7	1,071.3	5,691.8	72.6	0.0	731.7	0.0
National Institute of Food and Agriculture	257,350.0	0.0	10,278.0	7,614.0	207,550.0	7,712.0	0.0	24,196.0	0.0
Department of Defense	1,220,907.9	190,168.4	446,936.1	91,613.2	166,011.1	259,959.0	20,751.3	28,787.3	16,681.6
Defense Advanced Research Projects Agency	260,413.0	45,836.0	149,693.7	7,588.9	40,762.1	14,193.3	2,339.0	0.0	0.0
Department of the Air Force	322,935.9	51,864.6	89,595.0	0.0	35,000.0	129,057.0	11,209.6	6,209.6	0.0
Department of the Army	199,448.5	40,971.4	69,374.7	8,063.5	20,815.5	49,709.6	3,820.9	6,692.9	0.0
Department of the Navy	329,175.3	42,218.9	117,159.7	73,751.5	58,859.0	11,706.1	1,364.8	7,433.8	16,681.6
Other defense agencies[a]	108,935.3	9,277.5	21,113.1	2,209.2	10,574.5	55,293.0	2,017.0	8,451.0	0.0
Department of Energy	623,401.7	49,184.5	17,491.0	65,084.8	22,334.0	356,281.4	0.0	0.0	113,026.0
Bonneville Power Administration	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	798.0	0.0	798.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	2,760.4	0.0	0.0	0.0	0.0	2,760.4	0.0	0.0	0.0
National Nuclear Security Administration	3,073.2	1,128.5	50.0	559.8	0.0	1,335.0	0.0	0.0	0.0
Nonproliferation and Verification	3,073.2	1,128.5	50.0	559.8	0.0	1,335.0	0.0	0.0	0.0
Office of Science	616,270.0	48,056.0	16,143.0	64,525.0	22,334.0	352,186.0	0.0	0.0	113,026.0
Department of Health and Human Services	9,413,183.4	67,109.5	386,836.2	111,206.9	7,822,006.4	88,995.5	605,340.4	55,219.3	276,469.4
Ctrs. for Disease Control and Prevention	13,843.5	0.0	0.0	0.0	4,089.7	0.0	0.0	0.0	9,753.8
National Institutes of Health	9,399,340.0	67,109.5	386,836.2	111,206.9	7,817,916.7	88,995.5	605,340.4	55,219.3	266,715.6
Department of Homeland Security	61,064.1	8,038.6	6,946.6	6,687.1	21,087.9	1,393.9	451.6	3,946.1	12,512.5
Science and Technology Directorate	61,064.1	8,038.6	6,946.6	6,687.1	21,087.9	1,393.9	451.6	3,946.1	12,512.5
Other agencies									
National Aeronautics and Space Administration	351,126.8	3,483.7	64,959.4	99,723.3	15,577.2	138,209.8	618.2	108.0	28,447.1
National Science Foundation	4,019,856.7	990,604.8	616,076.2	570,569.5	655,084.0	771,677.5	28,419.6	143,209.8	244,215.3

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 80. Federal obligations for basic research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,237,479.4	817,428.4	381,245.1	38,806.0
Departments				
Department of Agriculture	99.5	45.0	54.5	0.0
Agricultural Research Service	49.5	0.0	49.5	0.0
Forest Service	50.0	45.0	5.0	0.0
Department of Defense	181,137.5	87,663.5	58,572.1	34,901.9
Defense Advanced Research Projects Agency	33,605.8	24,248.8	9,357.0	0.0
Department of the Air Force	56,037.7	21,160.0	20,957.4	13,920.3
Department of the Army	38,046.2	20,599.9	16,910.0	536.3
Department of the Navy	41,264.6	13,210.9	8,656.5	19,397.2
Other defense agencies[a]	12,183.1	8,443.9	2,691.2	1,048.0
Department of Energy	43,713.0	14,653.5	28,831.8	227.7
National Nuclear Security Administration	1,128.2	0.0	900.4	227.7
Nonproliferation and Verification	1,128.2	0.0	900.4	227.7
Office of Science	42,584.9	14,653.5	27,931.3	0.0
Department of Health and Human Services	67,204.9	0.0	67,204.9	0.0
National Institutes of Health	67,204.9	0.0	67,204.9	0.0
Department of Homeland Security	6,404.2	694.1	2,671.8	3,038.3
Science and Technology Directorate	6,404.2	694.1	2,671.8	3,038.3
Other agencies				
National Aeronautics and Space Administration	3,117.6	2,321.1	158.5	638.1
National Science Foundation	935,802.7	712,051.2	223,751.5	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 81. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	1,454,761.5	77,611.0	8,812.4	134,663.4	137,506.7	189,505.0	51,541.6	231,465.2	623,656.3
Departments									
Department of Agriculture	12,623.7	0.0	0.0	351.5	53.4	30.5	38.1	0.0	12,150.3
Agricultural Research Service	343.0	0.0	0.0	171.5	53.4	30.5	38.1	0.0	49.5
Forest Service	2,468.7	0.0	0.0	180.0	0.0	0.0	0.0	0.0	2,288.7
National Institute of Food and Agriculture	9,812.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,812.0
Department of Defense	383,393.6	40,783.2	0.0	15,963.6	2,334.6	112,556.3	43,373.2	53,006.8	115,375.8
Defense Advanced Research Projects Agency	109,751.7	0.0	0.0	0.0	0.0	21,700.0	0.0	11,666.0	76,385.7
Department of the Air Force	83,460.0	25,540.6	0.0	0.0	0.0	31,867.4	9,972.9	0.0	16,079.2
Department of the Army	67,557.1	8,357.8	0.0	1,235.3	473.0	22,256.5	14,394.6	20,674.2	165.7
Department of the Navy	98,753.9	2,000.7	0.0	12,571.2	241.6	28,934.5	15,676.9	18,113.2	21,215.8
Other defense agencies[a]	23,870.9	4,884.2	0.0	2,157.1	1,619.9	7,798.0	3,328.8	2,553.4	1,529.5
Department of Energy	25,696.4	0.0	0.0	0.0	0.0	556.8	70.0	24,989.6	80.0
Bonneville Power Administration	300.0	0.0	0.0	0.0	0.0	150.0	70.0	0.0	80.0
Electricity Delivery and Energy Reliability	406.8	0.0	0.0	0.0	0.0	406.8	0.0	0.0	0.0
Office of Science	24,989.6	0.0	0.0	0.0	0.0	0.0	0.0	24,989.6	0.0
Department of Health and Human Services	387,386.0	0.0	0.0	0.0	0.0	0.0	0.0	16,987.8	370,398.3
National Institutes of Health	387,386.0	0.0	0.0	0.0	0.0	0.0	0.0	16,987.8	370,398.3
Department of Homeland Security	5,534.2	0.0	0.0	0.0	0.0	2,752.8	0.0	64.9	2,716.5
Science and Technology Directorate	5,534.2	0.0	0.0	0.0	0.0	2,752.8	0.0	64.9	2,716.5
Other agencies									
National Aeronautics and Space Administration	58,133.8	36,827.7	8,812.4	405.3	36.1	1,780.5	1,243.7	2,057.9	6,970.1
National Science Foundation	581,993.8	0.0	0.0	117,943.0	135,082.7	71,828.1	6,816.6	134,358.2	115,965.3

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 82. Federal obligations for basic research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	895,652.5	223,771.5	187,597.4	317,876.1	166,407.4
Departments					
Department of Agriculture	8,130.0	7,633.3	3.8	0.0	492.9
Agricultural Research Service	167.7	163.9	3.8	0.0	0.0
Forest Service	1,071.3	578.4	0.0	0.0	492.9
National Institute of Food and Agriculture	6,891.0	6,891.0	0.0	0.0	0.0
Department of Defense	86,711.8	11,090.9	6,435.5	65,729.9	3,455.6
Defense Advanced Research Projects Agency	5,564.0	5,564.0	0.0	0.0	0.0
Department of the Army	7,595.0	2,009.8	4,640.2	0.0	945.0
Department of the Navy	70,742.6	3,517.0	185.7	64,529.2	2,510.6
Other defense agencies[a]	2,810.2	0.0	1,609.5	1,200.7	0.0
Department of Energy	49,879.6	36,622.1	13,257.4	0.0	0.0
National Nuclear Security Administration	10.4	10.4	0.0	0.0	0.0
Nonproliferation and Verification	10.4	10.4	0.0	0.0	0.0
Office of Science	49,869.2	36,611.7	13,257.4	0.0	0.0
Department of Health and Human Services	117,354.2	0.0	0.0	0.0	117,354.2
Ctrs. for Disease Control and Prevention	5,989.3	0.0	0.0	0.0	5,989.3
National Institutes of Health	111,364.9	0.0	0.0	0.0	111,364.9
Department of Homeland Security	5,327.5	0.0	0.0	2,662.6	2,664.9
Science and Technology Directorate	5,327.5	0.0	0.0	2,662.6	2,664.9
Other agencies					
National Aeronautics and Space Administration	89,244.8	54,675.7	22,184.5	5,279.6	7,105.0
National Science Foundation	539,004.6	113,749.5	145,716.3	244,204.1	35,334.7

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 83. Federal obligations for basic research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	8,971,551.5	120,537.0	5,053,423.0	221,597.2	2,881,626.8	694,367.4
Departments						
Department of Agriculture	256,594.7	116,373.7	71,471.6	66,928.2	1,810.2	11.0
Agricultural Research Service	35,014.5	27,201.3	2,439.2	4,752.7	621.2	0.0
Foreign Agricultural Service	90.3	90.3	0.0	0.0	0.0	0.0
Forest Service	5,691.8	30.0	2,542.4	3,108.5	0.0	11.0
National Institute of Food and Agriculture	215,798.0	89,052.0	66,490.0	59,067.0	1,189.0	0.0
Department of Defense	121,460.2	0.0	54,679.4	2,992.2	43,580.9	20,207.7
Defense Advanced Research Projects Agency	29,885.7	0.0	2,881.5	0.0	27,004.3	0.0
Department of the Air Force	17,985.9	0.0	7,652.0	0.0	0.0	10,333.9
Department of the Army	23,039.8	0.0	15,750.1	0.0	7,009.8	280.0
Department of the Navy	40,274.4	0.0	24,250.7	2,992.2	3,675.1	9,356.4
Other defense agencies[b]	10,274.4	0.0	4,145.2	0.0	5,891.8	237.4
Department of Energy	111,470.9	0.0	111,470.9	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	38.7	0.0	38.7	0.0	0.0	0.0
Office of Science	111,432.2	0.0	111,432.2	0.0	0.0	0.0
Department of Health and Human Services	7,832,441.3	0.0	4,336,759.6	0.0	2,834,338.7	661,342.9
Ctrs. for Disease Control and Prevention	3,413.0	0.0	0.0	0.0	3,413.0	0.0
National Institutes of Health	7,829,028.4	0.0	4,336,759.6	0.0	2,830,925.8	661,342.9
Department of Homeland Security	16,800.4	4,077.5	2,218.6	0.0	0.0	10,504.3
Science and Technology Directorate	16,800.4	4,077.5	2,218.6	0.0	0.0	10,504.3
Other agencies						
National Aeronautics and Space Administration	13,940.5	85.8	8,963.3	692.9	1,897.0	2,301.5
National Science Foundation	618,843.6	0.0	467,859.6	150,983.9	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 84. Federal obligations for basic research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,652,074.8	159,360.1	498,656.6	791,465.4	202,592.8
Departments					
Department of Agriculture	9,971.0	0.0	9,852.8	118.2	0.0
Agricultural Research Service	2,538.3	0.0	2,420.2	118.2	0.0
Forest Service	72.6	0.0	72.6	0.0	0.0
National Institute of Food and Agriculture	7,360.0	0.0	7,360.0	0.0	0.0
Department of Defense	261,007.4	0.0	78,324.5	152,208.2	30,474.8
Defense Advanced Research Projects Agency	10,406.2	0.0	0.0	7,333.8	3,072.4
Department of the Air Force	119,515.7	0.0	33,866.6	72,772.5	12,876.6
Department of the Army	47,042.9	0.0	27,406.2	18,081.3	1,555.4
Department of the Navy	23,067.8	0.0	12,063.8	7,352.8	3,651.2
Other defense agencies[a]	60,974.8	0.0	4,987.8	46,667.8	9,319.2
Department of Energy	438,189.7	0.0	97,574.7	340,455.0	159.9
Energy Efficiency and Renewable Energy	125.8	0.0	125.8	0.0	0.0
Fossil Energy	4,105.9	0.0	4,105.9	0.0	0.0
National Nuclear Security Administration	1,334.8	0.0	0.0	1,174.9	159.9
Nonproliferation and Verification	1,334.8	0.0	0.0	1,174.9	159.9
Office of Science	432,623.2	0.0	93,343.0	339,280.2	0.0
Department of Health and Human Services	89,121.9	0.0	84,781.9	0.0	4,340.0
National Institutes of Health	89,121.9	0.0	84,781.9	0.0	4,340.0
Department of Homeland Security	1,110.5	0.0	1,110.5	0.0	0.0
Science and Technology Directorate	1,110.5	0.0	1,110.5	0.0	0.0
Other agencies					
National Aeronautics and Space Administration	123,687.4	76,757.4	5,565.2	35,802.4	5,562.4
National Science Foundation	728,986.9	82,602.7	221,446.9	262,881.6	162,055.7

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 85. Federal obligations for basic research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	646,025.5	9,173.1	7,615.5	629,236.9
Departments				
Department of Defense	12,064.3	1,888.0	785.3	9,391.0
Defense Advanced Research Projects Agency	1,714.9	0.0	0.0	1,714.9
Department of the Air Force	3,893.6	0.0	0.0	3,893.6
Department of the Army	2,515.8	0.0	0.0	2,515.8
Department of the Navy	2,673.3	1,888.0	785.3	0.0
Other defense agencies[a]	1,266.7	0.0	0.0	1,266.7
Department of Health and Human Services	606,200.7	0.0	0.0	606,200.7
National Institutes of Health	606,200.7	0.0	0.0	606,200.7
Department of Homeland Security	359.8	0.0	359.8	0.0
Science and Technology Directorate	359.8	0.0	359.8	0.0
Other agencies				
National Aeronautics and Space Administration	553.3	31.6	62.4	459.2
National Science Foundation	26,847.4	7,253.4	6,408.0	13,186.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 86. Federal obligations for basic research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	245,280.9	19,468.7	31,518.3	9,114.3	13,636.0	171,543.6
Departments						
Department of Agriculture	24,174.7	0.0	16,892.0	0.0	6,843.0	439.7
Forest Service	731.7	0.0	232.0	0.0	60.0	439.7
National Institute of Food and Agriculture	23,443.0	0.0	16,660.0	0.0	6,783.0	0.0
Department of Defense	27,280.8	0.0	0.0	0.0	1,554.8	25,726.0
Department of the Air Force	10,591.6	0.0	0.0	0.0	0.0	10,591.6
Department of the Army	6,131.7	0.0	0.0	0.0	0.0	6,131.7
Department of the Navy	10,150.9	0.0	0.0	0.0	1,554.8	8,596.1
Other defense agencies[a]	406.6	0.0	0.0	0.0	0.0	406.6
Department of Health and Human Services	55,297.8	0.0	0.0	0.0	0.0	55,297.8
National Institutes of Health	55,297.8	0.0	0.0	0.0	0.0	55,297.8
Department of Homeland Security	3,143.8	0.0	0.0	0.0	485.9	2,657.9
Science and Technology Directorate	3,143.8	0.0	0.0	0.0	485.9	2,657.9
Other agencies						
National Aeronautics and Space Administration	96.7	0.0	0.0	0.0	34.9	61.8
National Science Foundation	135,287.2	19,468.7	14,626.3	9,114.3	4,717.4	87,360.4

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 87. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2011–13

(Dollars in thousands)

Field	2011	Preliminary 2012	Preliminary 2013
All fields	9,936,787.7	9,943,854.7	9,962,464.7
Computer sciences and mathematics	218,347.9	210,721.9	210,273.1
Computer sciences	144,091.7	NA	NA
Mathematics	71,569.4	NA	NA
Other computer sciences and mathematics	2,686.8	NA	NA
Engineering	924,576.1	858,501.0	896,136.7
Aeronautical engineering	42,087.7	NA	NA
Astronautical engineering	20,517.1	NA	NA
Chemical engineering	49,832.5	NA	NA
Civil engineering	50,404.1	NA	NA
Electrical engineering	134,731.7	NA	NA
Mechanical engineering	30,541.0	NA	NA
Metallurgy and materials engineering	55,951.7	NA	NA
Other engineering	540,510.4	NA	NA
Environmental sciences	164,170.6	156,838.9	150,928.7
Atmospheric sciences	21,905.9	NA	NA
Geological sciences	904.7	NA	NA
Oceanography	20,017.4	NA	NA
Other environmental sciences	121,342.6	NA	NA
Life sciences	7,399,320.7	7,475,127.4	7,449,774.6
Agricultural sciences	171,501.9	NA	NA
Biological sciences (excluding environmental biology)	3,831,245.9	NA	NA
Environmental biology	100,168.1	NA	NA
Medical sciences	2,663,801.7	NA	NA
Other life sciences	632,603.1	NA	NA
Physical sciences	212,622.3	205,155.4	211,059.9
Astronomy	4,776.2	NA	NA
Chemistry	101,207.7	NA	NA
Physics	85,675.6	NA	NA
Other physical sciences	20,962.9	NA	NA
Psychology	524,837.8	529,064.3	530,445.2
Biological aspects	2,959.8	NA	NA
Social aspects	3,603.6	NA	NA
Other psychological sciences	518,274.5	NA	NA
Social sciences	141,131.5	145,048.8	143,324.8
Anthropology	308.1	NA	NA
Economics	37,882.6	NA	NA
Political science	931.6	NA	NA
Sociology	16,506.4	NA	NA
Other social sciences	85,502.8	NA	NA
Other sciences nec	351,780.7	363,396.9	370,521.8

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FYs 2011–13.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 88. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other social sciences nec
All agencies surveyed	9,936,787.7	218,347.9	924,576.1	164,170.6	7,399,320.7	212,622.3	524,837.8	141,131.5	351,780.7
Departments									
Department of Agriculture	438,249.3	1,478.5	16,800.7	13,070.4	351,519.4	12,622.7	0.0	42,757.6	0.0
Agricultural Research Service	30,490.5	39.6	274.4	134.2	28,011.6	2,030.7	0.0	0.0	0.0
Economic Research Service	4,738.2	0.0	0.0	0.0	0.0	0.0	0.0	4,738.2	0.0
Foreign Agricultural Service	232.3	0.0	0.0	0.0	232.3	0.0	0.0	0.0	0.0
Forest Service	22,749.2	500.7	2,406.3	3,020.3	12,737.5	0.0	0.0	4,084.4	0.0
National Agricultural Statistics Service	938.1	938.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	378,901.0	0.0	14,120.0	9,916.0	310,538.0	10,592.0	0.0	33,735.0	0.0
Rural Business-Cooperative Service	200.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0
Department of Defense	665,119.5	83,829.7	313,694.4	22,824.0	191,375.8	36,479.6	7,299.8	6,606.4	3,009.8
Defense Advanced Research Projects Agency	281,184.7	50,616.0	130,197.1	1,537.0	93,332.4	5,502.1	0.0	0.0	0.0
Department of the Air Force	59,400.4	4,614.1	44,189.0	94.1	21.4	10,336.7	145.1	0.0	0.0
Department of the Army	127,819.6	2,341.8	31,823.1	1,521.0	81,860.6	8,972.0	1,301.1	0.0	0.0
Department of the Navy	118,974.7	7,391.6	84,065.5	14,018.2	9,104.7	215.3	0.0	2,792.4	1,386.9
Other defense agencies[a]	77,740.1	18,866.2	23,419.7	5,653.7	7,056.7	11,453.3	5,853.7	3,814.0	1,622.9
Department of Energy	201,051.4	1,730.0	100,304.6	7,890.4	18,376.3	72,614.8	0.0	0.0	135.2
Advanced Research Projects Agency—Energy	63,644.4	1,730.0	40,663.2	0.0	18,376.3	2,874.9	0.0	0.0	0.0
Bonneville Power Administration	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	4,186.1	0.0	4,186.1	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	47,872.1	0.0	47,872.1	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	818.4	0.0	0.0	818.4	0.0	0.0	0.0	0.0	0.0
Fossil Energy	20,160.0	0.0	7,202.0	7,072.0	0.0	5,886.1	0.0	0.0	0.0
National Nuclear Security Administration	63,989.1	0.0	0.0	0.0	0.0	63,853.9	0.0	0.0	135.2
Defense Programs	63,231.8	0.0	0.0	0.0	0.0	63,231.8	0.0	0.0	0.0
Nonproliferation and Verification	757.2	0.0	0.0	0.0	0.0	622.0	0.0	0.0	135.2
Nuclear Energy	331.3	0.0	331.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	8,255,166.7	60,344.0	330,361.7	107,342.7	6,830,787.6	75,918.7	516,493.2	76,519.7	257,399.0
Administration for Children and Families	8,974.8	0.0	0.0	0.0	0.0	0.0	0.0	8,974.8	0.0
Agency for Healthcare Research and Quality	109,871.4	3,095.5	366.2	0.0	76,620.0	0.0	100.0	12,423.0	17,266.8
Agency for Toxic Substances and Disease Registry	1,627.6	0.0	0.0	1,627.6	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	91,751.9	0.0	0.0	10,848.7	68,296.1	0.0	0.0	0.0	12,607.2
Ctrs. for Medicare and Medicaid Services	908.0	0.0	0.0	0.0	908.0	0.0	0.0	0.0	0.0
Food and Drug Administration	5,413.5	0.0	0.0	0.0	5,413.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	8,018,225.3	57,248.6	329,995.5	94,866.4	6,669,172.3	75,918.7	516,393.2	47,105.5	227,525.1
Office of the Secretary	3,397.4	0.0	0.0	0.0	0.0	0.0	0.0	3,397.4	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,397.4	0.0	0.0	0.0	0.0	0.0	0.0	3,397.4	0.0

TABLE 88. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other social sciences nec
Department of Homeland Security	6,178.0	94.0	1,287.5	0.0	1,139.3	2,187.5	166.8	1,303.0	0.0
Science and Technology Directorate	6,084.0	0.0	1,287.5	0.0	1,139.3	2,187.5	166.8	1,303.0	0.0
U.S. Coast Guard	94.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	67,287.3	1,847.3	42,579.7	10,363.7	5,074.2	6,549.7	445.8	0.0	426.9
National Science Foundation	303,735.5	69,024.5	119,547.5	2,679.4	1,048.2	6,249.4	432.2	13,944.7	90,809.7

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 89. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	9,943,854.7	210,721.9	858,501.0	156,838.9	7,475,127.4	205,155.4	529,064.3	145,048.8	363,396.9
Departments									
Department of Agriculture	507,859.4	952.1	19,991.4	18,031.4	408,363.8	14,352.4	0.0	46,168.4	0.0
Agricultural Research Service	24,119.9	31.4	217.1	106.1	22,159.0	1,606.4	0.0	0.0	0.0
Economic Research Service	3,179.0	0.0	0.0	0.0	0.0	0.0	0.0	3,179.0	0.0
Foreign Agricultural Service	232.3	0.0	0.0	0.0	232.3	0.0	0.0	0.0	0.0
Forest Service	22,749.2	500.7	2,406.3	3,020.3	12,737.5	0.0	0.0	4,084.4	0.0
National Agricultural Statistics Service	420.0	420.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	457,159.0	0.0	17,368.0	14,905.0	373,235.0	12,746.0	0.0	38,905.0	0.0
Department of Defense	559,936.2	78,522.1	289,784.9	21,597.8	119,497.6	32,824.4	2,799.9	6,980.0	7,929.5
Defense Advanced Research Projects Agency	308,391.7	55,513.6	139,635.0	1,685.8	102,363.2	6,034.5	0.0	0.0	3,159.8
Department of the Air Force	62,629.3	6,369.9	46,419.2	76.3	208.2	9,555.9	0.0	0.0	0.0
Department of the Army	41,334.6	1,986.0	17,558.7	1,677.0	4,729.3	13,907.8	1,475.9	0.0	0.0
Department of the Navy	127,920.4	11,730.4	79,931.4	18,158.8	11,785.4	455.0	0.0	4,340.0	1,519.4
Other defense agencies[a]	19,660.1	2,922.4	6,240.7	0.0	411.6	2,871.2	1,324.0	2,640.0	3,250.3
Department of Energy	141,380.6	0.0	56,108.8	5,106.7	595.5	66,955.6	0.0	0.0	12,614.0
Advanced Research Projects Agency—Energy	9,511.4	0.0	3,452.9	0.0	595.5	0.0	0.0	0.0	5,463.0
Bonneville Power Administration	200.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,614.6	0.0	2,614.6	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	44,640.8	0.0	44,640.8	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	14,557.5	0.0	5,200.5	5,106.7	0.0	4,250.3	0.0	0.0	0.0
National Nuclear Security Administration	62,705.3	0.0	0.0	0.0	0.0	62,705.3	0.0	0.0	0.0
Defense Programs	62,083.0	0.0	0.0	0.0	0.0	62,083.0	0.0	0.0	0.0
Nonproliferation and Verification	622.3	0.0	0.0	0.0	0.0	622.3	0.0	0.0	0.0
Nuclear Energy	7,151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,151.0
Department of Health and Human Services	8,369,977.9	61,307.3	335,989.7	100,405.5	6,940,211.5	77,213.8	525,302.1	76,960.8	252,587.3
Administration for Children and Families	9,163.3	0.0	0.0	0.0	0.0	0.0	0.0	9,163.3	0.0
Agency for Healthcare Research and Quality	109,397.5	3,082.1	364.7	0.0	76,289.5	0.0	99.6	12,369.4	17,192.3
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	71,746.3	0.0	0.0	2,920.7	64,837.2	0.0	0.0	0.0	3,988.4
Ctrs. for Medicare and Medicaid Services	530.0	0.0	0.0	0.0	530.0	0.0	0.0	0.0	0.0
Food and Drug Administration	5,233.2	0.0	0.0	0.0	5,233.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	8,155,010.8	58,225.2	335,625.0	96,484.8	6,782,943.8	77,213.8	525,202.5	47,909.1	231,406.5
Office of the Secretary	2,900.0	0.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	2,900.0	0.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0
Department of Homeland Security	5,302.2	0.0	1,122.0	0.0	992.9	1,906.4	145.3	1,135.6	0.0
Science and Technology Directorate	5,302.2	0.0	1,122.0	0.0	992.9	1,906.4	145.3	1,135.6	0.0

TABLE 89. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Other agencies									
National Aeronautics and Space Administration	58,727.2	1,612.3	37,162.8	9,045.2	4,428.7	5,716.5	389.1	0.0	372.6
National Science Foundation	300,671.2	68,328.1	118,341.4	2,652.4	1,037.6	6,186.4	427.8	13,804.0	89,893.5

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	9,962,464.7	210,273.1	896,136.7	150,928.7	7,449,774.6	211,059.9	530,445.2	143,324.8	370,521.8
Departments									
Department of Agriculture	422,788.7	954.7	17,431.1	14,091.0	335,607.1	12,834.4	0.0	41,870.4	0.0
Agricultural Research Service	26,087.2	33.9	234.8	114.8	23,966.3	1,737.4	0.0	0.0	0.0
Economic Research Service	2,966.0	0.0	0.0	0.0	0.0	0.0	0.0	2,966.0	0.0
Foreign Agricultural Service	232.3	0.0	0.0	0.0	232.3	0.0	0.0	0.0	0.0
Forest Service	22,749.2	500.7	2,406.3	3,020.3	12,737.5	0.0	0.0	4,084.4	0.0
National Agricultural Statistics Service	420.0	420.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	370,334.0	0.0	14,790.0	10,956.0	298,671.0	11,097.0	0.0	34,820.0	0.0
Department of Defense	553,856.8	75,750.7	262,782.2	22,246.0	135,882.4	38,086.7	1,692.2	9,468.9	7,947.7
Defense Advanced Research Projects Agency	293,446.0	52,823.2	132,867.8	1,604.1	97,402.3	5,742.1	0.0	0.0	3,006.6
Department of the Air Force	63,701.4	5,326.2	46,939.8	122.0	123.0	11,190.3	0.0	0.0	0.0
Department of the Army	37,291.8	1,574.3	15,768.0	1,451.0	5,245.9	12,250.4	1,002.2	0.0	0.0
Department of the Navy	125,452.6	9,553.3	61,721.1	18,928.9	24,977.0	566.9	0.0	6,521.9	3,183.4
Other defense agencies[a]	33,965.0	6,473.7	5,485.4	140.0	8,134.3	8,337.0	690.0	2,947.0	1,757.7
Department of Energy	220,482.6	1,150.1	118,610.4	4,754.6	5,633.0	67,711.1	0.0	0.0	22,623.6
Advanced Research Projects Agency—Energy	46,611.0	1,150.1	32,900.9	0.0	5,633.0	2,881.5	0.0	0.0	4,045.6
Bonneville Power Administration	225.0	0.0	225.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	4,707.5	0.0	4,707.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	75,935.0	0.0	75,935.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	13,553.7	0.0	4,841.9	4,754.6	0.0	3,957.2	0.0	0.0	0.0
National Nuclear Security Administration	60,872.3	0.0	0.0	0.0	0.0	60,872.3	0.0	0.0	0.0
Defense Programs	60,250.0	0.0	0.0	0.0	0.0	60,250.0	0.0	0.0	0.0
Nonproliferation and Verification	622.3	0.0	0.0	0.0	0.0	622.3	0.0	0.0	0.0
Nuclear Energy	18,578.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,578.0
Department of Health and Human Services	8,392,115.7	61,285.8	337,501.6	97,929.3	6,965,657.4	77,569.5	527,712.4	76,311.0	248,148.6
Administration for Children and Families	9,355.7	0.0	0.0	0.0	0.0	0.0	0.0	9,355.7	0.0
Agency for Healthcare Research and Quality	99,112.7	2,792.3	330.4	0.0	69,117.2	0.0	90.2	11,206.5	15,576.0
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	65,125.0	0.0	0.0	0.0	65,025.0	0.0	0.0	0.0	100.0
Ctrs. for Medicare and Medicaid Services	726.0	0.0	0.0	0.0	726.0	0.0	0.0	0.0	0.0
Food and Drug Administration	6,217.8	0.0	0.0	0.0	6,217.8	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,996.7	0.0	0.0	0.0	10,377.7	0.0	0.0	4,619.0	0.0
National Institutes of Health	8,192,581.8	58,493.5	337,171.3	96,929.3	6,814,193.6	77,569.5	527,622.2	48,129.8	232,472.6
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Department of Homeland Security	7,636.7	0.0	1,616.1	0.0	1,430.0	2,745.7	209.3	1,635.6	0.0
Science and Technology Directorate	7,636.7	0.0	1,616.1	0.0	1,430.0	2,745.7	209.3	1,635.6	0.0

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Other agencies									
National Aeronautics and Space Administration	59,799.2	1,641.7	37,841.2	9,210.4	4,509.5	5,820.8	396.2	0.0	379.4
National Science Foundation	305,785.0	69,490.2	120,354.1	2,697.5	1,055.2	6,291.6	435.1	14,038.8	91,422.4

nec = not elsewhere classified.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 91. Federal obligations for applied research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	218,347.9	144,091.7	71,569.4	2,686.8
Departments				
Department of Agriculture	1,478.5	258.7	1,219.8	0.0
Agricultural Research Service	39.6	0.0	39.6	0.0
Forest Service	500.7	258.7	242.0	0.0
National Agricultural Statistics Service	938.1	0.0	938.1	0.0
Department of Defense	83,829.7	71,864.1	10,916.4	1,049.2
Defense Advanced Research Projects Agency	50,616.0	49,585.8	961.8	68.5
Department of the Air Force	4,614.1	3,418.7	1,127.9	67.5
Department of the Army	2,341.8	1,634.0	360.8	347.0
Department of the Navy	7,391.6	7,391.6	0.0	0.0
Other defense agencies[a]	18,866.2	9,834.0	8,466.0	566.2
Department of Energy	1,730.0	650.0	1,080.0	0.0
Advanced Research Projects Agency—Energy	1,730.0	650.0	1,080.0	0.0
Department of Health and Human Services	60,344.0	2,682.2	57,248.6	413.3
Agency for Healthcare Research and Quality	3,095.5	2,682.2	0.0	413.3
National Institutes of Health	57,248.6	0.0	57,248.6	0.0
Department of Homeland Security	94.0	94.0	0.0	0.0
U.S. Coast Guard	94.0	94.0	0.0	0.0
Other agencies				
National Aeronautics and Space Administration	1,847.3	552.2	70.8	1,224.3
National Science Foundation	69,024.5	67,990.6	1,033.8	0.0

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 92. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	924,576.1	42,087.7	20,517.1	49,832.5	50,404.1	134,731.7	30,541.0	55,951.7	540,510.4
Departments									
Department of Agriculture	16,800.7	0.0	0.0	137.2	42.7	24.4	30.5	0.0	16,565.9
Agricultural Research Service	274.4	0.0	0.0	137.2	42.7	24.4	30.5	0.0	39.6
Forest Service	2,406.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,406.3
National Institute of Food and Agriculture	14,120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,120.0
Department of Defense	313,694.4	15,102.6	6,515.3	11,374.2	7,715.1	93,788.8	18,856.4	29,106.2	131,235.9
Defense Advanced Research Projects Agency	130,197.1	0.0	0.0	0.0	0.0	37,455.6	1,449.8	8,291.6	83,000.0
Department of the Air Force	44,189.0	11,080.1	6,264.9	67.2	0.0	7,298.3	1,325.8	9,995.8	8,156.8
Department of the Army	31,823.1	833.1	0.0	1,735.3	3,499.0	11,568.4	8,587.6	2,810.5	2,789.3
Department of the Navy	84,065.5	3,189.4	250.4	5,355.6	0.0	26,695.1	3,277.1	8,008.3	37,289.7
Other defense agencies[a]	23,419.7	0.0	0.0	4,216.1	4,216.1	10,771.4	4,216.1	0.0	0.0
Department of Energy	100,304.6	0.0	0.0	10,163.6	9,502.7	24,264.8	9,429.3	12,150.7	34,793.5
Advanced Research Projects Agency—Energy	40,663.2	0.0	0.0	2,961.6	0.0	13,754.2	9,358.8	12,088.6	2,500.0
Bonneville Power Administration	50.0	0.0	0.0	0.0	0.0	15.0	15.0	0.0	20.0
Electricity Delivery and Energy Reliability	4,186.1	0.0	0.0	0.0	0.0	4,186.1	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	47,872.1	0.0	0.0	0.0	9,502.7	6,309.6	55.4	62.2	31,942.2
Fossil Energy	7,202.0	0.0	0.0	7,202.0	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	331.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Department of Health and Human Services	330,361.7	0.0	0.0	0.0	0.0	0.0	294.7	14,471.1	315,596.0
Agency for Healthcare Research and Quality	366.2	0.0	0.0	0.0	0.0	0.0	294.7	0.0	71.5
National Institutes of Health	329,995.5	0.0	0.0	0.0	0.0	0.0	0.0	14,471.1	315,524.5
Department of Homeland Security	1,287.5	0.0	0.0	0.0	1,112.6	0.0	0.0	0.0	174.9
Science and Technology Directorate	1,287.5	0.0	0.0	0.0	1,112.6	0.0	0.0	0.0	174.9
Other agencies									
National Aeronautics and Space Administration	42,579.7	26,985.1	14,001.8	11.6	0.7	373.1	249.4	87.0	870.9
National Science Foundation	119,547.5	0.0	0.0	28,145.9	32,030.2	16,280.6	1,680.7	136.7	41,273.4

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 93. Federal obligations for applied research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	164,170.6	21,905.9	904.7	20,017.4	121,342.6
Departments					
Department of Agriculture	13,070.4	11,318.0	3.0	0.0	1,749.4
Agricultural Research Service	134.2	131.1	3.0	0.0	0.0
Forest Service	3,020.3	1,270.9	0.0	0.0	1,749.4
National Institute of Food and Agriculture	9,916.0	9,916.0	0.0	0.0	0.0
Department of Defense	22,824.0	3,112.4	53.8	17,767.7	1,890.1
Defense Advanced Research Projects Agency	1,537.0	0.0	0.0	1,537.0	0.0
Department of the Air Force	94.1	40.3	53.8	0.0	0.0
Department of the Army	1,521.0	0.0	0.0	0.0	1,521.0
Department of the Navy	14,018.2	245.3	0.0	13,403.9	369.1
Other defense agencies[a]	5,653.7	2,826.8	0.0	2,826.8	0.0
Department of Energy	7,890.4	0.0	0.0	0.0	7,890.4
Environmental Management	818.4	0.0	0.0	0.0	818.4
Fossil Energy	7,072.0	0.0	0.0	0.0	7,072.0
Department of Health and Human Services	107,342.7	0.0	0.0	0.0	107,342.7
Agency for Toxic Substances and Disease Registry	1,627.6	0.0	0.0	0.0	1,627.6
Ctrs. for Disease Control and Prevention	10,848.7	0.0	0.0	0.0	10,848.7
National Institutes of Health	94,866.4	0.0	0.0	0.0	94,866.4
Other agencies					
National Aeronautics and Space Administration	10,363.7	7,148.8	702.5	1,913.8	598.6
National Science Foundation	2,679.4	326.7	145.4	335.8	1,871.4

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 94. Federal obligations for applied research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	7,399,320.7	171,501.9	3,831,245.9	100,168.1	2,663,801.7	632,603.1
Departments						
Department of Agriculture	351,519.4	150,284.2	103,564.5	95,157.4	2,208.0	305.3
Agricultural Research Service	28,011.6	21,761.1	1,951.4	3,802.2	497.0	0.0
Foreign Agricultural Service	232.3	232.3	0.0	0.0	0.0	0.0
Forest Service	12,737.5	143.8	5,932.1	6,356.3	0.0	305.3
National Institute of Food and Agriculture	310,538.0	128,147.0	95,681.0	84,999.0	1,711.0	0.0
Department of Defense	191,375.8	2,820.8	20,553.4	4,855.4	161,444.4	1,701.7
Defense Advanced Research Projects Agency	93,332.4	0.0	14,775.4	0.0	78,557.1	0.0
Department of the Air Force	21.4	0.0	0.0	0.0	0.0	21.4
Department of the Army	81,860.6	0.0	695.0	0.0	80,594.6	571.0
Department of the Navy	9,104.7	0.0	1,583.1	4,855.4	1,556.8	1,109.3
Other defense agencies[b]	7,056.7	2,820.8	3,500.0	0.0	735.9	0.0
Department of Energy	18,376.3	18,376.3	0.0	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	18,376.3	18,376.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	6,830,787.6	0.0	3,703,290.2	0.0	2,497,150.6	630,346.7
Agency for Healthcare Research and Quality	76,620.0	0.0	0.0	0.0	75,243.5	1,376.5
Ctrs. for Disease Control and Prevention	68,296.1	0.0	3,600.0	0.0	0.0	64,696.1
Ctrs. for Medicare and Medicaid Services	908.0	0.0	0.0	0.0	0.0	908.0
Food and Drug Administration	5,413.5	0.0	5,413.5	0.0	0.0	0.0
Health Resources and Services Administration	10,377.7	0.0	0.0	0.0	10,377.7	0.0
National Institutes of Health	6,669,172.3	0.0	3,694,276.7	0.0	2,411,529.4	563,366.2
Department of Homeland Security	1,139.3	0.0	1,139.3	0.0	0.0	0.0
Science and Technology Directorate	1,139.3	0.0	1,139.3	0.0	0.0	0.0
Other agencies						
National Aeronautics and Space Administration	5,074.2	20.5	1,650.3	155.2	2,998.7	249.4
National Science Foundation	1,048.2	0.0	1,048.2	0.0	0.0	0.0

[a] Excluding environmental biology.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 95. Federal obligations for applied research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	212,622.3	4,776.2	101,207.7	85,675.6	20,962.9
Departments					
Department of Agriculture	12,622.7	0.0	12,528.1	94.5	0.0
Agricultural Research Service	2,030.7	0.0	1,936.1	94.5	0.0
National Institute of Food and Agriculture	10,592.0	0.0	10,592.0	0.0	0.0
Department of Defense	36,479.6	201.6	6,493.4	19,191.6	10,592.9
Defense Advanced Research Projects Agency	5,502.1	0.0	0.0	1,615.9	3,886.2
Department of the Air Force	10,336.7	201.6	196.2	8,663.0	1,275.9
Department of the Army	8,972.0	0.0	2,238.3	3,287.4	3,446.4
Department of the Navy	215.3	0.0	0.0	0.0	215.3
Other defense agencies[a]	11,453.3	0.0	4,058.9	5,625.3	1,769.1
Department of Energy	72,614.8	0.0	8,760.9	63,340.1	513.7
Advanced Research Projects Agency—Energy	2,874.9	0.0	2,874.9	0.0	0.0
Fossil Energy	5,886.1	0.0	5,886.1	0.0	0.0
National Nuclear Security Administration	63,853.9	0.0	0.0	63,340.1	513.7
Defense Programs	63,231.8	0.0	0.0	63,231.8	0.0
Nonproliferation and Verification	622.0	0.0	0.0	108.3	513.7
Department of Health and Human Services	75,918.7	0.0	72,221.6	0.0	3,697.0
National Institutes of Health	75,918.7	0.0	72,221.6	0.0	3,697.0
Department of Homeland Security	2,187.5	0.0	11.1	0.0	2,176.4
Science and Technology Directorate	2,187.5	0.0	11.1	0.0	2,176.4
Other agencies					
National Aeronautics and Space Administration	6,549.7	4,418.8	223.2	1,605.8	302.0
National Science Foundation	6,249.4	155.8	969.2	1,443.6	3,680.9

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 96. Federal obligations for applied research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2011

(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	524,837.8	2,959.8	3,603.6	518,274.5
Departments				
Department of Defense	7,299.8	2,826.8	3,026.8	1,446.2
Department of the Air Force	145.1	0.0	0.0	145.1
Department of the Army	1,301.1	0.0	0.0	1,301.1
Other defense agencies[a]	5,853.7	2,826.8	3,026.8	0.0
Department of Health and Human Services	516,493.2	0.0	0.0	516,493.2
Agency for Healthcare Research and Quality	100.0	0.0	0.0	100.0
National Institutes of Health	516,393.2	0.0	0.0	516,393.2
Department of Homeland Security	166.8	0.0	0.0	166.8
Science and Technology Directorate	166.8	0.0	0.0	166.8
Other agencies				
National Aeronautics and Space Administration	445.8	0.0	403.6	42.2
National Science Foundation	432.2	132.9	173.1	126.1

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 97. Federal obligations for applied research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2011
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	141,131.5	308.1	37,882.6	931.6	16,506.4	85,502.8
Departments						
Department of Agriculture	42,757.6	68.0	31,198.1	0.0	10,135.9	1,355.6
Economic Research Service	4,738.2	0.0	4,738.2	0.0	0.0	0.0
Forest Service	4,084.4	68.0	2,286.0	0.0	374.9	1,355.6
National Institute of Food and Agriculture	33,735.0	0.0	23,974.0	0.0	9,761.0	0.0
Rural Business-Cooperative Service	200.0	0.0	200.0	0.0	0.0	0.0
Department of Defense	6,606.4	0.0	0.0	0.0	5,206.2	1,400.3
Department of the Navy	2,792.4	0.0	0.0	0.0	1,392.2	1,400.3
Other defense agencies[a]	3,814.0	0.0	0.0	0.0	3,814.0	0.0
Department of Health and Human Services	76,519.7	40.5	3,112.8	0.0	40.3	73,326.1
Administration for Children and Families	8,974.8	0.0	0.0	0.0	0.0	8,974.8
Agency for Healthcare Research and Quality	12,423.0	40.5	3,112.8	0.0	40.3	9,229.4
Health Resources and Services Administration	4,619.0	0.0	0.0	0.0	0.0	4,619.0
National Institutes of Health	47,105.5	0.0	0.0	0.0	0.0	47,105.5
Office of the Secretary	3,397.4	0.0	0.0	0.0	0.0	3,397.4
Office of the Assistant Secretary, Planning and Evaluation	3,397.4	0.0	0.0	0.0	0.0	3,397.4
Department of Homeland Security	1,303.0	0.0	0.0	0.0	0.0	1,303.0
Science and Technology Directorate	1,303.0	0.0	0.0	0.0	0.0	1,303.0
Other agencies						
National Science Foundation	13,944.7	199.6	3,571.7	931.6	1,124.1	8,117.7

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2011
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
All areas and organizations	976,849.9	2,624.0	665,014.2	3,472.2	253,540.7	4,377.6	30,396.5	1,965.0	15,459.9
Africa	70,842.2	0.0	414.6	0.0	70,240.7	0.0	0.0	186.9	0.0
Botswana	461.5	0.0	0.0	0.0	461.5	0.0	0.0	0.0	0.0
Congo, Democratic Republic of the	300.0	0.0	0.0	0.0	300.0	0.0	0.0	0.0	0.0
Ghana	3,574.9	0.0	0.0	0.0	3,570.9	0.0	0.0	4.0	0.0
Guinea-Bissau	2,308.0	0.0	0.0	0.0	2,308.0	0.0	0.0	0.0	0.0
Kenya	5,904.8	0.0	0.0	0.0	5,854.8	0.0	0.0	50.0	0.0
Malawi	435.3	0.0	0.0	0.0	435.3	0.0	0.0	0.0	0.0
Mali	1,060.7	0.0	0.0	0.0	1,060.7	0.0	0.0	0.0	0.0
Mozambique	2,873.3	0.0	0.0	0.0	2,873.3	0.0	0.0	0.0	0.0
Nigeria	2,473.3	0.0	0.0	0.0	2,463.3	0.0	0.0	10.0	0.0
Senegal	1,249.3	0.0	0.0	0.0	1,249.3	0.0	0.0	0.0	0.0
South Africa	36,705.6	0.0	414.6	0.0	36,251.0	0.0	0.0	40.0	0.0
Tanzania	576.2	0.0	0.0	0.0	576.2	0.0	0.0	0.0	0.0
Tunisia	442.1	0.0	0.0	0.0	442.1	0.0	0.0	0.0	0.0
Uganda	5,441.4	0.0	0.0	0.0	5,358.5	0.0	0.0	82.9	0.0
Zambia	2,994.5	0.0	0.0	0.0	2,994.5	0.0	0.0	0.0	0.0
Zimbabwe	4,041.2	0.0	0.0	0.0	4,041.2	0.0	0.0	0.0	0.0
Asia	257,333.4	2,121.7	235,502.3	361.0	19,015.4	62.2	0.0	210.6	60.2
Asian countries, other	222.9	0.0	222.9	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
Bangladesh	410.5	0.0	0.0	0.0	410.5	0.0	0.0	0.0	0.0
Cambodia	618.9	0.0	193.8	0.0	425.1	0.0	0.0	0.0	0.0
China	9,789.1	0.0	4,826.4	0.0	4,760.2	21.5	0.0	140.9	40.2
Georgia	242.6	0.0	231.7	0.0	0.0	0.0	0.0	10.9	0.0
Hong Kong	886.6	0.0	832.6	0.0	54.0	0.0	0.0	0.0	0.0
India	6,114.8	0.0	1,816.6	10.0	4,288.2	0.0	0.0	0.0	0.0
Indonesia	70.0	0.0	0.0	0.0	70.0	0.0	0.0	0.0	0.0
Israel	129,717.4	2,121.7	123,361.1	351.0	3,810.4	39.9	0.0	33.4	0.0
Japan	98,243.9	0.0	96,874.6	0.0	1,368.4	0.9	0.0	0.0	0.0
Korea, North	36.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0
Korea, South	2,353.6	0.0	1,946.8	0.0	386.8	0.0	0.0	0.0	20.0
Lebanon	143.3	0.0	0.0	0.0	143.3	0.0	0.0	0.0	0.0
Malaysia	551.9	0.0	551.9	0.0	0.0	0.0	0.0	0.0	0.0
Nepal	215.0	0.0	0.0	0.0	215.0	0.0	0.0	0.0	0.0
Pakistan	274.5	0.0	0.0	0.0	274.5	0.0	0.0	0.0	0.0
Philippines	378.1	0.0	327.9	0.0	50.2	0.0	0.0	0.0	0.0
Saudi Arabia	30.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
Singapore	3,484.3	0.0	3,484.3	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	3,370.4	0.0	738.7	0.0	2,631.7	0.0	0.0	0.0	0.0
Turkey	98.8	0.0	27.0	0.0	50.3	0.0	0.0	21.5	0.0
Vietnam	76.9	0.0	0.0	0.0	76.9	0.0	0.0	0.0	0.0
Europe	458,663.8	369.4	362,350.4	1,125.2	65,223.2	3,222.5	21,055.5	627.0	4,690.6
Albania	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0
Austria	3,767.9	0.0	1,267.7	0.0	0.0	0.0	2,500.0	0.0	0.2
Belgium	3,234.9	369.4	2,614.6	0.0	232.5	18.4	0.0	0.0	0.0
Bulgaria	485.9	0.0	485.9	0.0	0.0	0.0	0.0	0.0	0.0
Croatia	141.4	0.0	60.0	0.0	81.4	0.0	0.0	0.0	0.0
Czech Republic	1,331.6	0.0	1,331.4	0.0	0.0	0.2	0.0	0.0	0.0
Denmark	12,600.5	0.0	2,886.6	0.0	8,203.9	489.6	1,020.4	0.0	0.0
Estonia	171.0	0.0	171.0	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	100.4	0.0	90.1	0.0	0.0	0.0	0.0	0.0	10.3

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2011
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Finland	3,157.8	0.0	663.3	0.0	2,494.4	0.0	0.0	0.0	0.0
France	13,504.0	0.0	3,358.8	0.0	6,190.3	922.5	2,969.2	56.7	6.5
Germany	205,036.1	0.0	192,006.2	241.6	11,272.6	49.5	1,426.8	13.8	25.4
Greece	861.6	0.0	861.6	0.0	0.0	0.0	0.0	0.0	0.0
Hungary	200.2	0.0	150.0	0.0	50.2	0.0	0.0	0.0	0.0
Iceland	2,334.9	0.0	75.0	0.0	2,259.9	0.0	0.0	0.0	0.0
Ireland	188.0	0.0	0.0	0.0	188.0	0.0	0.0	0.0	0.0
Italy	4,072.2	0.0	1,622.5	0.0	2,291.0	0.0	0.0	149.9	8.8
Lithuania	171.0	0.0	0.0	0.0	171.0	0.0	0.0	0.0	0.0
Netherlands	5,900.9	0.0	3,825.0	0.0	2,023.4	32.0	0.0	0.0	20.5
Norway	12,195.8	0.0	10,268.1	0.0	942.8	218.0	0.0	0.0	766.8
Poland	418.0	0.0	418.0	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	547.6	0.0	537.6	0.0	0.0	0.0	0.0	10.0	0.0
Russia	4,922.7	0.0	0.0	0.0	185.2	0.0	4,244.5	0.0	492.9
Spain	1,151.5	0.0	764.7	0.0	363.3	0.0	0.0	0.0	23.6
Sweden	13,495.4	0.0	2,189.4	0.0	1,987.5	1,247.4	8,071.1	0.0	0.0
Switzerland	12,168.6	0.0	1,075.7	0.0	9,906.5	45.0	275.7	1.0	864.7
United Kingdom	156,498.2	0.0	135,627.2	883.5	16,379.2	199.8	547.8	389.8	2,470.9
North America	132,324.0	0.0	50,289.3	1,215.4	71,776.8	792.3	6,424.9	250.2	1,575.3
Bahamas, The	387.0	0.0	387.0	0.0	0.0	0.0	0.0	0.0	0.0
Bermuda	3,758.4	0.0	0.0	0.0	0.0	218.8	3,539.7	0.0	0.0
Canada	117,808.5	0.0	49,474.8	1,215.4	62,024.4	538.1	2,885.2	95.3	1,575.3
Costa Rica	4,519.2	0.0	0.0	0.0	4,485.3	0.0	0.0	34.0	0.0
Dominican Republic	420.1	0.0	0.0	0.0	420.1	0.0	0.0	0.0	0.0
Guatemala	1,927.7	0.0	0.0	0.0	1,927.7	0.0	0.0	0.0	0.0
Haiti	2,231.6	0.0	0.0	0.0	2,231.6	0.0	0.0	0.0	0.0
Jamaica	113.3	0.0	0.0	0.0	107.4	0.0	0.0	5.9	0.0
Mexico	749.2	0.0	54.0	0.0	580.2	0.0	0.0	115.0	0.0
North American countries, other	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0
Panama	408.9	0.0	373.5	0.0	0.0	35.4	0.0	0.0	0.0
Oceania	25,594.1	132.9	10,439.2	770.6	13,762.2	15.0	98.9	375.3	0.0
Australia	22,644.5	132.9	9,202.2	770.6	12,152.3	15.0	0.0	371.6	0.0
New Zealand	2,949.6	0.0	1,237.0	0.0	1,609.9	0.0	98.9	3.8	0.0
South America	22,963.4	0.0	6,018.4	0.0	13,522.5	285.6	2,817.2	314.8	4.9
Argentina	1,294.1	0.0	0.0	0.0	1,271.2	0.0	0.0	22.9	0.0
Brazil	8,227.6	0.0	370.3	0.0	4,916.1	127.6	2,757.2	51.5	4.9
Chile	424.7	0.0	157.6	0.0	267.2	0.0	0.0	0.0	0.0
Colombia	1,964.3	0.0	0.0	0.0	1,964.3	0.0	0.0	0.0	0.0
Ecuador	40.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
Paraguay	70.5	0.0	0.0	0.0	0.0	0.0	0.0	70.5	0.0
Peru	5,243.8	0.0	0.0	0.0	4,955.8	158.0	0.0	130.0	0.0
South American countries, other	5,419.2	0.0	5,419.2	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2011
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Uruguay	219.2	0.0	71.3	0.0	148.0	0.0	0.0	0.0	0.0
Venezuela	60.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0
International organizations	9,128.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,128.9

* = amount greater than $0 but less than $50.

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] Includes data for the Departments of Commerce, the Interior, and Transportation; the Agency for International Development; the Environmental Protection Agency; the Nuclear Regulatory Commission; and the Social Security Administration.

NOTES: Because of rounding, detail may not add to total. Only those countries that had obligations in variables represented by this table appear in the table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2011
(Dollars in thousands)

Region and country or economy	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	USDA
All areas and organizations	208,741.3	369.4	50.0	41,011.4	3,472.2	133,880.0	1,370.2	27,716.8	871.3
Africa	36,124.6	0.0	0.0	0.0	0.0	36,053.2	0.0	0.0	71.5
Botswana	249.2	0.0	0.0	0.0	0.0	249.2	0.0	0.0	0.0
Ghana	1,928.3	0.0	0.0	0.0	0.0	1,928.3	0.0	0.0	0.0
Kenya	2,811.6	0.0	0.0	0.0	0.0	2,786.6	0.0	0.0	25.0
Malawi	235.0	0.0	0.0	0.0	0.0	235.0	0.0	0.0	0.0
Mali	572.8	0.0	0.0	0.0	0.0	572.8	0.0	0.0	0.0
Mozambique	1,551.6	0.0	0.0	0.0	0.0	1,551.6	0.0	0.0	0.0
Nigeria	1,335.2	0.0	0.0	0.0	0.0	1,330.2	0.0	0.0	5.0
Senegal	1,249.3	0.0	0.0	0.0	0.0	1,249.3	0.0	0.0	0.0
South Africa	19,575.5	0.0	0.0	0.0	0.0	19,575.5	0.0	0.0	0.0
Tanzania	192.3	0.0	0.0	0.0	0.0	192.3	0.0	0.0	0.0
Tunisia	238.7	0.0	0.0	0.0	0.0	238.7	0.0	0.0	0.0
Uganda	2,385.7	0.0	0.0	0.0	0.0	2,344.2	0.0	0.0	41.5
Zambia	1,617.0	0.0	0.0	0.0	0.0	1,617.0	0.0	0.0	0.0
Zimbabwe	2,182.3	0.0	0.0	0.0	0.0	2,182.3	0.0	0.0	0.0
Asia	23,038.9	0.0	0.0	12,800.7	361.0	9,752.9	21.7	0.0	102.7
Asian countries, other	90.5	0.0	0.0	90.5	0.0	0.0	0.0	0.0	0.0
Azerbaijan	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Cambodia	229.6	0.0	0.0	0.0	0.0	229.6	0.0	0.0	0.0
China	5,523.9	0.0	0.0	2,977.4	0.0	2,460.1	20.8	0.0	65.6
Georgia	217.2	0.0	0.0	211.7	0.0	0.0	0.0	0.0	5.4
Hong Kong	29.2	0.0	0.0	0.0	0.0	29.2	0.0	0.0	0.0
India	3,891.9	0.0	0.0	967.6	10.0	2,914.4	0.0	0.0	0.0
Israel	4,758.4	0.0	0.0	2,333.1	351.0	2,057.6	0.0	0.0	16.7
Japan	3,530.1	0.0	0.0	2,790.3	0.0	738.9	0.9	0.0	0.0
Korea, South	1,471.1	0.0	0.0	1,262.2	0.0	208.9	0.0	0.0	0.0
Lebanon	77.4	0.0	0.0	0.0	0.0	77.4	0.0	0.0	0.0
Malaysia	352.3	0.0	0.0	352.3	0.0	0.0	0.0	0.0	0.0
Pakistan	148.2	0.0	0.0	0.0	0.0	148.2	0.0	0.0	0.0
Philippines	27.1	0.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0
Singapore	1,612.0	0.0	0.0	1,612.0	0.0	0.0	0.0	0.0	0.0
Thailand	934.1	0.0	0.0	176.6	0.0	757.5	0.0	0.0	0.0
Turkey	67.1	0.0	0.0	27.0	0.0	27.1	0.0	0.0	13.0
Vietnam	76.9	0.0	0.0	0.0	0.0	76.9	0.0	0.0	0.0
Europe	73,967.6	369.4	0.0	17,518.9	1,125.2	35,485.0	811.8	18,375.8	281.5
Albania	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Austria	651.4	0.0	0.0	651.4	0.0	0.0	0.0	0.0	0.0
Belgium	776.2	369.4	0.0	281.2	0.0	125.6	0.0	0.0	0.0
Bulgaria	310.2	0.0	0.0	310.2	0.0	0.0	0.0	0.0	0.0
Croatia	43.9	0.0	0.0	0.0	0.0	43.9	0.0	0.0	0.0
Czech Republic	100.2	0.0	0.0	100.1	0.0	0.0	0.2	0.0	0.0
Denmark	6,150.0	0.0	0.0	435.0	0.0	4,694.6	0.0	1,020.4	0.0
European countries, other	57.5	0.0	0.0	57.5	0.0	0.0	0.0	0.0	0.0
Finland	1,347.0	0.0	0.0	0.0	0.0	1,347.0	0.0	0.0	0.0
France	8,145.4	0.0	0.0	1,050.1	0.0	3,342.8	754.9	2,969.2	28.4
Germany	11,329.6	0.0	0.0	3,568.0	241.6	6,087.2	8.5	1,412.5	11.8
Greece	738.6	0.0	0.0	738.6	0.0	0.0	0.0	0.0	0.0
Hungary	27.1	0.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0
Iceland	1,295.3	0.0	0.0	75.0	0.0	1,220.3	0.0	0.0	0.0
Ireland	101.5	0.0	0.0	0.0	0.0	101.5	0.0	0.0	0.0
Italy	2,222.3	0.0	0.0	915.6	0.0	1,237.2	0.0	0.0	69.5
Lithuania	92.3	0.0	0.0	0.0	0.0	92.3	0.0	0.0	0.0

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2011
(Dollars in thousands)

Region and country or economy	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	USDA
Netherlands	2,771.9	0.0	0.0	1,670.2	0.0	1,092.6	9.0	0.0	0.0
Norway	509.1	0.0	0.0	0.0	0.0	509.1	0.0	0.0	0.0
Poland	304.8	0.0	0.0	304.8	0.0	0.0	0.0	0.0	0.0
Russia	4,344.6	0.0	0.0	0.0	0.0	100.0	0.0	4,244.5	0.0
Spain	536.6	0.0	0.0	340.4	0.0	196.2	0.0	0.0	0.0
Sweden	9,347.7	0.0	0.0	308.8	0.0	1,073.2	0.0	7,965.7	0.0
Switzerland	6,177.4	0.0	0.0	545.2	0.0	5,349.5	6.5	275.7	0.5
United Kingdom	16,584.0	0.0	0.0	6,166.7	883.5	8,844.7	32.7	487.8	168.5
North America	49,503.9	0.0	50.0	4,024.6	1,215.3	37,400.1	251.0	6,424.9	138.0
Bahamas, The	44.5	0.0	0.0	44.5	0.0	0.0	0.0	0.0	0.0
Bermuda	3,758.4	0.0	0.0	0.0	0.0	0.0	218.8	3,539.7	0.0
Canada	41,142.0	0.0	50.0	3,980.1	1,215.3	32,905.4	32.3	2,885.2	73.7
Costa Rica	2,439.0	0.0	0.0	0.0	0.0	2,422.1	0.0	0.0	17.0
Dominican Republic	226.9	0.0	0.0	0.0	0.0	226.9	0.0	0.0	0.0
Guatemala	269.4	0.0	0.0	0.0	0.0	269.4	0.0	0.0	0.0
Haiti	1,205.1	0.0	0.0	0.0	0.0	1,205.1	0.0	0.0	0.0
Jamaica	63.9	0.0	0.0	0.0	0.0	58.0	0.0	0.0	5.9
Mexico	354.8	0.0	0.0	0.0	0.0	313.3	0.0	0.0	41.5
Oceania	12,216.9	0.0	0.0	3,340.4	770.6	7,886.8	0.0	98.9	120.2
Australia	10,530.5	0.0	0.0	3,079.4	770.6	6,562.2	0.0	0.0	118.3
New Zealand	1,686.4	0.0	0.0	261.0	0.0	1,324.5	0.0	98.9	1.9
South America	13,889.3	0.0	0.0	3,326.8	0.0	7,302.1	285.6	2,817.2	157.4
Argentina	697.9	0.0	0.0	0.0	0.0	686.4	0.0	0.0	11.4
Brazil	5,859.7	0.0	0.0	294.4	0.0	2,654.7	127.6	2,757.2	25.7
Chile	249.8	0.0	0.0	105.5	0.0	144.3	0.0	0.0	0.0
Colombia	1,060.7	0.0	0.0	0.0	0.0	1,060.7	0.0	0.0	0.0
Ecuador	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Paraguay	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Peru	2,899.1	0.0	0.0	0.0	0.0	2,676.1	158.0	0.0	65.0
South American countries, other	2,881.4	0.0	0.0	2,881.4	0.0	0.0	0.0	0.0	0.0
Uruguay	125.4	0.0	0.0	45.5	0.0	79.9	0.0	0.0	0.0
Venezuela	60.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only those countries that had obligations in variables represented by this table appear in the table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2011

(Dollars in thousands)

State or location	Total	R&D	R&D plant
All locations	136,894,023.2	132,793,572.8	4,100,450.4
Alabama	5,295,260.4	5,202,092.0	93,168.4
Alaska	202,715.2	196,454.5	6,260.7
Arizona	2,947,365.2	2,917,047.9	30,317.3
Arkansas	185,010.6	178,642.3	6,368.3
California	23,766,357.8	22,768,910.9	997,446.9
Colorado	3,956,159.9	3,815,538.7	140,621.2
Connecticut	2,519,648.9	2,425,967.6	93,681.4
Delaware	115,096.9	114,728.2	368.6
District of Columbia	3,244,864.1	3,007,958.4	236,905.8
Florida	2,572,256.1	2,481,826.6	90,429.4
Georgia	1,467,224.3	1,421,811.7	45,412.6
Hawaii	426,894.6	403,573.6	23,320.9
Idaho	461,142.7	430,211.7	30,931.0
Illinois	2,993,498.0	2,878,085.3	115,412.7
Indiana	909,639.1	903,000.0	6,639.1
Iowa	702,406.7	695,338.5	7,068.1
Kansas	372,209.7	367,779.8	4,429.9
Kentucky	246,576.6	241,959.2	4,617.4
Louisiana	612,182.9	597,294.0	14,888.9
Maine	181,440.9	179,968.8	1,472.1
Maryland	16,155,528.3	15,750,592.7	404,935.6
Massachusetts	7,789,148.2	7,758,388.4	30,759.8
Michigan	2,156,949.1	2,153,449.0	3,500.1
Minnesota	973,293.3	949,293.0	24,000.3
Mississippi	610,041.4	588,082.5	21,958.8
Missouri	1,197,458.7	1,193,265.6	4,193.0
Montana	182,102.5	181,657.3	445.2
Nebraska	262,929.1	262,148.0	781.1
Nevada	482,238.0	478,098.5	4,139.5
New Hampshire	407,596.5	406,011.8	1,584.7
New Jersey	2,622,722.8	2,582,709.2	40,013.6
New Mexico	3,553,014.5	3,456,208.0	96,806.5
New York	5,252,630.3	5,042,119.6	210,510.7
North Carolina	2,069,116.8	2,060,306.3	8,810.4
North Dakota	118,061.4	117,702.5	358.9
Ohio	3,609,891.3	3,554,656.3	55,235.0
Oklahoma	475,595.9	462,535.7	13,060.3
Oregon	729,170.1	711,080.7	18,089.3
Pennsylvania	4,528,147.9	4,512,982.4	15,165.6
Puerto Rico	98,890.5	97,350.8	1,539.6
Rhode Island	612,765.9	610,133.1	2,632.8
South Carolina	515,713.2	496,684.2	19,028.9
South Dakota	61,930.7	61,087.0	843.7
Tennessee	2,213,856.6	1,898,594.7	315,262.0
Texas	5,904,027.4	5,475,367.0	428,660.4
Utah	1,757,901.5	1,756,403.3	1,498.2
Vermont	125,856.7	124,444.4	1,412.4
Virginia	8,637,382.3	8,292,643.9	344,738.4
Washington	4,980,150.3	4,931,381.2	48,769.1
West Virginia	261,253.2	239,806.5	21,446.6

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2011

(Dollars in thousands)

State or location	Total	R&D	R&D plant
Wisconsin	752,236.3	742,243.1	9,993.2
Wyoming	37,708.9	37,192.8	516.1
Offices abroad[a]	35,653.2	35,653.2	0.0
Other areas[b]	4,545,110.2	4,545,110.2	0.0

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2011. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 101. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2011
(Dollars in thousands)

State or location	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
All locations	132,793,572.8	34,138,020.3	53,384,272.9	4,399,789.2	27,375,801.5	3,429,483.3	6,463,519.1	2,901,458.7	701,227.7
Alabama	5,202,092.0	2,124,684.7	2,704,945.5	0.0	342,175.5	0.0	26,915.3	0.0	3,371.0
Alaska	196,454.5	82,100.9	34,636.3	0.0	64,005.3	0.0	10,328.6	0.0	5,383.4
Arizona	2,917,047.9	403,455.5	1,959,031.0	0.0	386,697.9	77,937.8	65,715.5	0.0	24,210.3
Arkansas	178,642.3	31,264.3	43,274.2	0.0	87,196.6	0.0	14,363.7	0.0	2,543.5
California	22,768,910.9	2,883,773.8	11,469,397.3	1,317,439.4	3,810,094.3	1,705,808.8	982,317.5	580,207.9	19,872.0
Colorado	3,815,538.7	294,014.7	2,319,992.7	0.0	512,277.5	131,831.5	375,490.2	173,136.6	8,795.5
Connecticut	2,425,967.6	239,688.9	1,603,855.8	0.0	550,218.1	0.0	22,621.2	0.0	9,583.5
Delaware	114,728.2	3,469.5	18,385.5	0.0	86,311.1	0.0	5,187.6	0.0	1,374.5
District of Columbia	3,007,958.4	2,245,404.6	306,652.7	0.0	196,841.7	0.0	254,816.3	2,106.2	2,136.8
Florida	2,481,826.6	792,345.2	896,025.5	0.0	665,757.6	0.0	118,857.9	0.0	8,840.4
Georgia	1,421,811.7	182,862.5	519,644.9	0.0	674,240.5	0.0	36,651.0	0.0	8,413.0
Hawaii	403,573.6	111,537.7	122,271.3	0.0	154,046.7	0.0	14,961.9	0.0	756.0
Idaho	430,211.7	50,617.9	62,587.2	278,958.0	35,246.7	0.0	1,760.0	0.0	1,041.9
Illinois	2,878,085.3	360,796.6	398,155.1	0.0	1,225,657.6	794,460.5	89,662.5	0.0	9,353.0
Indiana	903,000.0	147,892.3	312,872.4	0.0	417,216.1	0.0	1,288.3	0.0	23,730.8
Iowa	695,338.5	60,239.6	282,396.1	0.0	311,007.0	28,426.5	11,012.1	0.0	2,257.2
Kansas	367,779.8	39,289.6	157,939.1	0.0	164,127.5	0.0	5,501.2	0.0	922.4
Kentucky	241,959.2	13,146.6	30,377.5	0.0	188,367.6	0.0	5,428.4	0.0	4,639.1
Louisiana	597,294.0	319,908.4	35,132.8	0.0	224,599.7	0.0	7,189.9	0.0	10,463.1
Maine	179,968.8	20,155.8	53,518.2	0.0	26,752.6	0.0	77,586.4	0.0	1,955.9
Maryland	15,750,592.7	9,901,940.8	3,537,669.9	451,668.0	1,532,308.2	0.0	324,074.3	0.0	2,931.5
Massachusetts	7,758,388.4	520,506.4	3,197,800.6	0.0	1,637,994.8	421,562.9	1,536,655.5	435,253.8	8,614.2
Michigan	2,153,449.0	497,613.4	669,583.7	0.0	929,710.8	0.0	52,865.1	0.0	3,675.9
Minnesota	949,293.0	100,627.0	221,325.4	0.0	401,766.1	0.0	219,387.9	0.0	6,186.6
Mississippi	588,082.5	230,751.1	246,960.5	0.0	106,066.6	0.0	739.8	0.0	3,564.5
Missouri	1,193,265.6	53,332.3	559,182.4	0.0	546,570.0	0.0	28,507.7	0.0	5,673.3
Montana	181,657.3	68,417.3	34,694.0	0.0	67,038.3	0.0	6,672.3	0.0	4,835.5
Nebraska	262,148.0	57,322.7	72,286.0	0.0	122,069.1	0.0	8,340.9	0.0	2,129.2
Nevada	478,098.5	82,979.0	348,560.7	0.0	43,211.4	0.0	2,463.8	0.0	883.7
New Hampshire	406,011.8	39,245.5	226,980.4	0.0	137,020.5	0.0	2,005.9	0.0	759.6
New Jersey	2,582,709.2	527,971.7	1,473,931.0	0.0	426,743.8	60,700.0	17,339.4	0.0	76,023.2
New Mexico	3,456,208.0	574,673.6	370,300.4	2,316,257.8	154,658.5	0.0	33,073.2	0.0	7,244.5
New York	5,042,119.6	210,069.9	1,810,582.6	0.0	2,210,028.4	0.0	350,589.5	369,322.5	91,526.7
North Carolina	2,060,306.3	386,539.6	214,093.2	0.0	1,264,294.7	0.0	190,015.7	0.0	5,363.2
North Dakota	117,702.5	29,132.8	12,620.5	0.0	73,100.2	0.0	2,839.0	0.0	10.0
Ohio	3,554,656.3	960,129.9	1,637,562.9	0.0	777,704.6	0.0	176,072.3	0.0	3,186.7
Oklahoma	462,535.7	186,373.7	143,491.7	0.0	103,137.4	0.0	28,160.0	0.0	1,372.9
Oregon	711,080.7	92,764.7	207,686.5	0.0	371,877.2	0.0	34,687.4	0.0	4,064.9
Pennsylvania	4,512,982.4	220,076.9	2,203,328.4	0.0	1,714,482.3	36,154.7	286,121.7	0.0	52,818.4
Puerto Rico	97,350.8	8,685.6	9,615.3	0.0	69,000.2	8,967.1	627.7	0.0	454.9
Rhode Island	610,133.1	323,489.3	72,861.4	0.0	142,088.9	0.0	71,108.1	0.0	585.5
South Carolina	496,684.2	157,078.9	78,440.5	35,466.1	187,796.2	0.0	33,207.2	0.0	4,695.4
South Dakota	61,087.0	9,277.4	4,200.9	0.0	35,946.0	0.0	10,273.4	0.0	1,389.3
Tennessee	1,898,594.7	108,446.9	274,819.8	0.0	526,404.9	0.0	100,804.6	776,145.9	111,972.5
Texas	5,475,367.0	462,451.3	3,410,059.9	0.0	1,433,487.3	0.0	164,105.0	572.0	4,691.5
Utah	1,756,403.3	193,126.7	1,286,766.7	0.0	258,565.2	0.0	7,790.0	0.0	10,154.7
Vermont	124,444.4	5,532.7	41,600.0	0.0	75,421.0	0.0	159.3	0.0	1,731.4
Virginia	8,292,643.9	2,738,037.4	4,475,062.9	0.0	477,672.6	163,633.5	138,917.7	291,083.3	8,236.5
Washington	4,931,381.2	268,038.7	3,080,802.7	0.0	772,766.5	0.0	475,986.8	273,630.5	60,156.1
West Virginia	239,806.5	119,064.5	64,570.4	0.0	38,000.0	0.0	12,098.8	0.0	6,072.8

TABLE 101. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2011
(Dollars in thousands)

State or location	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Wisconsin	742,243.1	83,298.8	62,344.5	0.0	576,300.8	0.0	18,458.1	0.0	1,840.9
Wyoming	37,192.8	6,798.5	1,384.6	0.0	26,163.2	0.0	1,675.5	0.0	1,171.0
Offices abroad[b]	35,653.2	34,796.6	836.6	0.0	20.0	0.0	0.0	0.0	0.0
Other areas[c]	4,545,110.2	4,472,779.7	1,174.9	0.0	13,548.0	0.0	40.0	0.0	57,567.5

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Includes R&D performed or administered in foreign countries by the U.S. government.

[c] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2011. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 102. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2011
(Dollars in thousands)

State or location	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
All locations	4,100,450.4	790,784.0	2,029,974.4	118,328.5	285,993.5	242,932.6	141,266.5	491,020.4	150.5
Alabama	93,168.4	17,514.4	67,270.3	0.0	7,983.7	0.0	400.0	0.0	0.0
Alaska	6,260.7	4,801.9	394.5	0.0	1,064.3	0.0	0.0	0.0	0.0
Arizona	30,317.3	9,289.1	11,530.3	0.0	4,497.9	0.0	5,000.0	0.0	0.0
Arkansas	6,368.3	6,228.2	1.8	0.0	138.3	0.0	0.0	0.0	0.0
California	997,446.9	51,294.6	792,496.5	25,757.6	37,834.5	65,406.2	1.6	24,655.7	0.0
Colorado	140,621.2	51,608.6	3,905.9	0.0	2,449.6	7,120.8	34,285.3	41,251.0	0.0
Connecticut	93,681.4	1,221.5	91,597.1	0.0	741.5	0.0	121.3	0.0	0.0
Delaware	368.6	0.0	53.6	0.0	315.0	0.0	0.0	0.0	0.0
District of Columbia	236,905.8	153,086.7	3,228.8	0.0	11,467.7	0.0	69,122.7	0.0	0.0
Florida	90,429.4	15,838.2	62,067.7	0.0	8,225.5	0.0	4,298.0	0.0	0.0
Georgia	45,412.6	44,085.5	891.2	0.0	435.9	0.0	0.0	0.0	0.0
Hawaii	23,320.9	18,883.3	130.9	0.0	4,306.7	0.0	0.0	0.0	0.0
Idaho	30,931.0	0.0	29,466.8	201.0	1,263.2	0.0	0.0	0.0	0.0
Illinois	115,412.7	1,745.8	7,432.5	0.0	4,325.7	101,772.1	136.6	0.0	0.0
Indiana	6,639.1	294.0	451.0	0.0	5,894.1	0.0	0.0	0.0	0.0
Iowa	7,068.1	1,693.6	494.8	0.0	1,003.1	3,876.6	0.0	0.0	0.0
Kansas	4,429.9	3,901.9	2.6	0.0	525.4	0.0	0.0	0.0	0.0
Kentucky	4,617.4	323.4	97.8	0.0	2,215.5	0.0	1,980.6	0.0	0.0
Louisiana	14,888.9	8,249.3	3,630.7	0.0	2,864.4	0.0	0.0	0.0	144.5
Maine	1,472.1	0.0	0.6	0.0	971.5	0.0	500.0	0.0	0.0
Maryland	404,935.6	151,874.7	236,405.7	0.0	14,749.3	0.0	1,906.1	0.0	0.0
Massachusetts	30,759.8	9,335.1	5,410.4	0.0	9,502.0	2,475.0	3,008.7	1,028.6	0.0
Michigan	3,500.1	0.0	163.9	0.0	3,325.8	0.0	10.5	0.0	0.0
Minnesota	24,000.3	21,793.5	359.0	0.0	1,847.8	0.0	0.0	0.0	0.0
Mississippi	21,958.8	11,248.2	9,725.6	0.0	985.1	0.0	0.0	0.0	0.0
Missouri	4,193.0	1,932.2	1,200.0	0.0	1,060.8	0.0	0.0	0.0	0.0
Montana	445.2	0.0	149.7	0.0	295.4	0.0	0.0	0.0	0.0
Nebraska	781.1	23.6	491.1	0.0	266.5	0.0	0.0	0.0	0.0
Nevada	4,139.5	0.0	3,304.7	0.0	834.8	0.0	0.0	0.0	0.0
New Hampshire	1,584.7	589.7	969.0	0.0	22.5	0.0	3.5	0.0	0.0
New Jersey	40,013.6	6,135.3	7,111.9	0.0	9,428.5	17,338.0	0.0	0.0	0.0
New Mexico	96,806.5	1,681.9	2,345.6	92,368.4	404.5	0.0	0.0	0.0	6.0
New York	210,510.7	3,898.6	4,414.2	0.0	23,389.4	0.0	495.5	178,313.0	0.0
North Carolina	8,810.4	3,050.0	2,487.3	0.0	2,330.6	0.0	942.4	0.0	0.0
North Dakota	358.9	0.0	0.0	0.0	358.9	0.0	0.0	0.0	0.0
Ohio	55,235.0	20,699.0	29,780.3	0.0	3,014.7	0.0	1,741.0	0.0	0.0
Oklahoma	13,060.3	116.1	1,880.9	0.0	10,005.7	0.0	1,057.6	0.0	0.0
Oregon	18,089.3	14,036.4	1,305.9	0.0	2,747.0	0.0	0.0	0.0	0.0
Pennsylvania	15,165.6	1,619.4	6,646.8	0.0	6,586.3	0.0	313.0	0.0	0.0
Puerto Rico	1,539.6	164.7	0.0	0.0	1,374.9	0.0	0.0	0.0	0.0
Rhode Island	2,632.8	1,675.0	491.2	0.0	466.6	0.0	0.0	0.0	0.0
South Carolina	19,028.9	14,458.1	585.3	1.5	3,984.0	0.0	0.0	0.0	0.0
South Dakota	843.7	0.0	0.0	0.0	843.7	0.0	0.0	0.0	0.0
Tennessee	315,262.0	1,350.0	193,862.5	0.0	9,333.9	0.0	1,336.7	109,379.0	0.0
Texas	428,660.4	112,214.6	278,157.5	0.0	35,513.8	0.0	12.4	2,762.0	0.0
Utah	1,498.2	0.0	19.5	0.0	1,478.7	0.0	0.0	0.0	0.0
Vermont	1,412.4	0.0	299.5	0.0	1,112.8	0.0	0.0	0.0	0.0
Virginia	344,738.4	18,105.5	149,903.4	0.0	2,862.1	44,944.0	14,230.6	114,692.7	0.0
Washington	48,769.1	0.0	199.4	0.0	29,631.3	0.0	0.0	18,938.4	0.0
West Virginia	21,446.6	3,421.3	17,125.3	0.0	900.0	0.0	0.0	0.0	0.0

TABLE 102. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2011
(Dollars in thousands)

State or location	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Wisconsin	9,993.2	1,301.1	33.6	0.0	8,556.8	0.0	101.6	0.0	0.0
Wyoming	516.1	0.0	0.0	0.0	255.3	0.0	260.8	0.0	0.0
Offices abroad[b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[c]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Includes R&D performed or administered in foreign countries by the U.S. government.

[c] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D plant obligations in FY 2011.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 103. Federal obligations for research and development, by state and other locations and selected agency: FY 2011

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	132,793,572.8	556,461.0	1,066,224.0	74,492,262.1	9,942,296.0	703,282.5	841,058.0	576,145.0	30,595,218.0	6,566,078.8	5,115,193.5	2,339,353.8
Alabama	5,202,092.0	2,588.6	837.5	4,389,783.6	25,762.4	7,149.9	12,383.2	757.2	281,091.1	430,312.3	23,844.9	27,581.2
Alaska	196,454.5	0.0	10,231.3	58,743.1	5,448.7	63,893.6	997.6	5.4	9,913.3	3,129.2	27,498.4	16,593.9
Arizona	2,917,047.9	28,194.2	5,404.0	2,319,355.7	10,613.9	43,040.8	15,299.4	379.0	192,569.2	112,207.8	161,989.7	27,994.4
Arkansas	178,642.3	856.3	0.0	59,762.1	315.0	3,460.1	2,008.6	25.2	65,107.3	970.8	8,654.9	37,482.1
California	22,768,910.9	104,195.5	13,534.6	14,280,627.1	1,994,316.2	75,896.8	23,760.9	27,327.0	3,611,962.1	1,782,931.3	719,422.3	134,937.2
Colorado	3,815,538.7	7,116.5	169,117.8	1,571,033.3	205,914.5	41,593.4	21,940.2	19,887.1	336,849.7	1,126,857.1	266,795.6	48,433.5
Connecticut	2,425,967.6	12,590.3	4,450.5	1,803,698.4	21,334.5	704.2	13,330.9	820.6	487,544.0	16,481.6	54,989.9	10,022.7
Delaware	114,728.2	33.3	4,179.8	28,682.6	5,419.0	1,678.5	1,274.9	277.0	31,294.4	4,771.2	24,455.6	12,661.8
District of Columbia	3,007,958.4	39,913.1	29,778.7	1,568,541.1	454,158.5	19,540.2	106,290.3	54,948.2	223,492.1	33,961.3	169,470.8	307,864.1
Florida	2,481,826.6	1,604.5	38,087.2	1,554,041.3	33,237.3	21,572.0	26,555.0	12,667.2	496,037.3	100,382.4	124,816.9	72,825.6
Georgia	1,421,811.7	5,644.1	1,702.2	599,486.1	24,395.9	5,607.3	12,705.6	10,508.0	583,057.8	13,787.1	88,574.7	76,343.0
Hawaii	403,573.6	1,397.6	6,775.5	250,506.4	3,465.9	8,056.2	521.3	0.0	60,298.5	13,459.1	37,562.1	21,531.0
Idaho	430,211.7	793.7	593.0	32,373.5	327,050.5	19,943.0	649.3	288.2	10,512.4	976.6	10,499.3	26,532.1
Illinois	2,878,085.3	7,202.2	3,304.9	538,664.4	1,038,479.0	12,977.1	46,598.3	10,459.2	802,977.9	44,549.0	315,265.8	57,607.5
Indiana	903,000.0	7,464.8	1,653.8	466,002.6	20,476.1	6,335.1	23,129.4	681.9	220,723.5	8,337.4	125,484.1	22,711.3
Iowa	695,338.5	0.0	567.0	297,508.3	39,659.3	6,903.3	1,785.2	2,059.3	210,440.5	4,909.3	49,026.1	82,480.3
Kansas	367,779.8	2,119.4	0.0	183,079.1	5,817.1	5,525.3	3,308.9	811.1	107,044.6	2,495.9	31,715.4	25,863.0
Kentucky	241,959.2	2,443.1	155.3	24,011.3	3,287.9	6,221.7	7,899.0	847.2	159,256.8	1,425.6	17,313.9	19,097.4
Louisiana	597,294.0	6.9	1,312.9	313,372.5	6,243.8	9,798.9	5,519.3	159.6	172,763.3	4,662.2	28,115.5	55,339.0
Maine	179,968.8	33.8	1,655.7	64,789.0	814.9	4,145.5	1,785.4	345.0	77,411.9	2,056.7	15,841.9	11,089.0
Maryland	15,750,592.7	60,684.2	526,063.3	6,413,380.7	24,011.6	5,715.1	32,525.1	68,476.7	7,412,637.4	933,655.6	111,786.2	161,656.6
Massachusetts	7,758,388.4	36,763.3	33,407.3	4,425,019.1	117,119.8	13,084.2	59,580.0	20,680.9	2,541,844.6	114,055.7	366,399.7	30,433.5
Michigan	2,153,449.0	910.1	16,277.9	1,007,111.6	32,430.8	11,632.1	18,564.0	6,977.8	834,182.5	22,757.9	164,236.1	38,368.0
Minnesota	949,293.0	7,978.3	1,667.8	266,217.2	14,573.8	10,424.2	4,320.5	15,972.7	502,573.8	7,208.8	77,430.9	40,925.0
Mississippi	588,082.5	4,876.6	635.7	424,611.0	2,595.5	4,342.3	2,121.5	128.1	40,179.1	7,805.2	12,593.7	88,193.8
Missouri	1,193,265.6	1,473.5	2,392.0	525,104.1	79,841.0	11,498.0	3,081.9	416.6	488,157.9	10,066.6	36,151.3	35,082.5
Montana	181,657.3	0.0	229.2	33,876.4	6,474.9	14,233.3	807.3	4.6	80,149.7	7,490.6	14,553.1	23,838.4
Nebraska	262,148.0	0.0	348.3	106,239.7	1,624.2	4,013.8	8,309.4	346.1	85,337.3	542.6	18,737.0	36,649.6
Nevada	478,098.5	1,934.6	240.0	182,258.9	224,473.6	8,163.4	971.8	14,655.8	20,825.3	7,713.9	12,062.1	4,799.0
New Hampshire	406,011.8	1.0	4,694.1	244,473.0	2,319.6	6,369.1	485.9	21.2	90,012.7	17,211.8	29,149.5	11,273.9
New Jersey	2,582,709.2	9,558.9	28,394.5	2,018,584.8	91,502.4	4,513.8	30,881.0	2,853.2	259,321.4	14,197.1	107,713.8	15,188.3
New Mexico	3,456,208.0	30,066.6	513.8	1,091,862.3	2,056,353.3	29,233.1	68,811.6	2,724.0	114,736.6	16,938.2	33,709.0	11,259.5
New York	5,042,119.6	22,944.1	21,673.4	1,562,539.0	864,538.3	5,843.7	15,375.1	6,895.5	2,073,686.4	65,315.3	359,391.1	43,917.7
North Carolina	2,060,306.3	10,070.6	23,571.5	332,650.1	24,631.7	29,729.0	21,430.6	149,911.2	1,266,644.2	6,096.5	142,854.9	52,716.0
North Dakota	117,702.5	0.0	1,619.6	28,686.5	13,228.1	2,630.0	1,224.3	18.9	18,182.9	1,194.4	13,407.6	37,510.2
Ohio	3,554,656.3	6,041.7	5,476.2	2,452,587.8	30,305.5	3,835.3	10,112.4	36,756.8	719,552.2	159,853.8	103,546.9	26,587.8
Oklahoma	462,535.7	1,421.1	15,126.3	275,289.0	7,658.9	4,785.7	17,127.4	9,186.0	83,610.6	2,079.1	23,999.8	22,251.7
Oregon	711,080.7	0.5	9,178.6	184,495.9	23,609.9	23,674.9	1,988.9	17,127.1	310,929.5	9,013.0	69,938.9	61,123.5
Pennsylvania	4,512,982.4	2,158.8	4,570.5	2,112,078.1	560,602.3	9,039.9	15,967.6	4,304.1	1,504,557.7	25,590.6	204,248.2	69,864.5

TABLE 103. Federal obligations for research and development, by state and other locations and selected agency: FY 2011

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Puerto Rico	97,350.8	1,027.0	367.6	15,975.9	1,051.1	704.2	0.0	18.9	50,810.1	66.0	16,669.3	10,660.7
Rhode Island	610,133.1	1,095.8	1,870.2	392,196.3	6,822.7	1,135.7	111.6	13,982.0	155,424.4	3,964.2	30,369.9	3,160.3
South Carolina	496,684.2	14,305.4	8,761.8	217,830.3	39,629.7	4,970.8	1,228.6	2,492.4	146,803.4	1,055.8	35,973.2	23,632.8
South Dakota	61,087.0	0.0	23.0	5,748.7	1,190.2	5,487.0	1,297.3	0.0	23,304.2	2,078.5	12,858.5	9,099.6
Tennessee	1,898,594.7	9,677.4	2,055.9	243,948.5	813,146.8	11,498.6	27,871.3	1,008.0	487,866.0	210,617.4	56,861.2	34,043.5
Texas	5,475,367.0	23,199.5	8,219.1	3,594,425.5	93,387.9	25,396.7	5,961.5	4,535.6	1,091,443.0	342,287.3	184,871.1	101,639.8
Utah	1,756,403.3	418.4	1,278.3	1,054,043.6	16,088.9	14,513.5	1,397.5	18.9	183,343.8	413,194.5	39,191.1	32,914.9
Vermont	124,444.4	0.0	62.6	40,213.5	374.6	2,291.2	894.9	201.7	53,173.6	351.0	12,951.6	13,929.8
Virginia	8,292,643.9	62,526.7	6,097.6	6,805,120.3	124,739.4	19,118.9	139,525.5	34,668.6	365,606.4	423,576.1	293,762.3	17,902.1
Washington	4,931,381.2	21,904.5	43,827.1	3,341,802.1	295,952.5	19,617.6	10,896.3	11,422.4	982,827.6	21,519.5	103,468.2	78,143.4
West Virginia	239,806.5	921.7	0.0	50,460.2	88,457.4	9,922.6	1,679.7	2,537.1	37,891.1	664.3	10,760.5	36,512.0
Wisconsin	742,243.1	302.4	3,785.0	79,251.2	53,569.0	16,199.1	8,039.7	4,548.9	410,800.3	8,871.5	96,668.1	60,208.1
Wyoming	37,192.8	0.0	0.0	1,025.2	3,670.4	5,622.7	725.1	0.0	6,460.8	372.0	13,962.9	5,353.7
Offices abroad[a]	35,653.2	0.0	0.0	35,653.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[b]	4,545,110.2	0.0	454.0	4,523,441.2	110.0	0.0	0.0	0.0	11,993.6	10.0	3,578.1	5,523.3

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2011. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Alabama	5,202,092.0	2,124,684.7	2,704,945.5	0.0	342,175.5	0.0	26,915.3	0.0	3,371.0
Department of Agriculture	27,581.2	9,605.4	0.0	0.0	17,883.9	0.0	0.0	0.0	91.9
Department of Commerce	837.5	0.0	113.8	0.0	549.7	0.0	136.0	0.0	38.0
Department of Defense, research	176,678.2	100,924.1	69,053.7	0.0	6,621.1	0.0	79.3	0.0	0.0
Department of Defense, total development[b]	4,213,105.4	1,914,264.0	2,279,694.2	0.0	18,236.4	0.0	599.6	0.0	311.2
Department of Energy	25,762.4	325.0	17,154.4	0.0	7,462.7	0.0	820.3	0.0	0.0
Department of Health and Human Services	281,091.1	0.0	3,040.2	0.0	252,986.3	0.0	24,929.7	0.0	135.0
Department of Homeland Security	2,588.6	1,565.5	65.3	0.0	957.7	0.0	0.0	0.0	0.0
Department of the Interior	7,149.9	6,100.0	0.0	0.0	758.1	0.0	0.0	0.0	291.8
Department of Transportation	12,383.2	3,419.4	3,847.9	0.0	2,512.8	0.0	99.9	0.0	2,503.2
Environmental Protection Agency	757.2	0.0	3.5	0.0	753.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	430,312.3	88,481.2	331,841.7	0.0	9,739.0	0.0	250.4	0.0	0.0
National Science Foundation	23,844.9	0.0	130.7	0.0	23,714.2	0.0	0.0	0.0	0.0
Alaska	196,454.5	82,100.9	34,636.3	0.0	64,005.3	0.0	10,328.6	0.0	5,383.4
Department of Agriculture	16,593.9	12,562.2	0.0	0.0	3,984.2	0.0	0.0	0.0	47.5
Department of Commerce	10,231.3	4,757.6	0.0	0.0	4,080.7	0.0	35.0	0.0	1,358.0
Department of Defense, research	2,109.0	160.4	1,394.2	0.0	259.6	0.0	294.8	0.0	0.0
Department of Defense, total development[b]	56,634.1	17,773.8	30,554.3	0.0	2,896.4	0.0	5,381.3	0.0	28.2
Department of Energy	5,448.7	0.0	169.9	0.0	3,524.3	0.0	0.0	0.0	1,754.5
Department of Health and Human Services	9,913.3	314.0	0.0	0.0	8,720.0	0.0	716.5	0.0	162.8
Department of the Interior	63,893.6	46,532.8	1,825.2	0.0	14,213.8	0.0	435.2	0.0	886.6
Department of Transportation	997.6	0.0	11.3	0.0	18.0	0.0	0.0	0.0	968.3
Environmental Protection Agency	5.4	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,129.2	0.0	487.3	0.0	2,641.9	0.0	0.0	0.0	0.0
National Science Foundation	27,498.4	0.0	188.6	0.0	23,666.4	0.0	3,465.8	0.0	177.6
Arizona	2,917,047.9	403,455.5	1,959,031.0	0.0	386,697.9	77,937.8	65,715.5	0.0	24,210.3
Department of Agriculture	27,994.4	19,843.5	24.8	0.0	8,081.7	0.0	0.0	0.0	44.5
Department of Commerce	5,404.0	628.0	2,030.4	0.0	2,681.6	0.0	14.0	0.0	50.0
Department of Defense, research	78,349.7	5,332.1	40,916.2	0.0	32,015.6	0.0	85.7	0.0	0.0
Department of Defense, total development[b]	2,241,006.0	313,153.5	1,852,245.4	0.0	10,524.0	43,142.6	1,149.0	0.0	20,791.6
Department of Energy	10,613.9	0.0	3,029.9	0.0	6,319.1	0.0	1,265.0	0.0	0.0
Department of Health and Human Services	192,569.2	5,356.3	8,657.2	0.0	156,881.2	0.0	21,674.5	0.0	0.0
Department of Homeland Security	28,194.2	19,621.8	2,221.4	0.0	5,809.4	0.0	541.6	0.0	0.0
Department of the Interior	43,040.8	36,403.7	749.1	0.0	5,060.3	0.0	176.3	0.0	651.3
Department of Transportation	15,299.4	938.8	6,652.0	0.0	50.0	0.0	4,985.6	0.0	2,672.9
Environmental Protection Agency	379.0	0.0	96.5	0.0	282.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	112,207.8	2,177.8	41,008.6	0.0	63,508.1	0.0	5,513.4	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Science Foundation	161,989.7	0.0	1,399.5	0.0	95,484.4	34,795.2	30,310.5	0.0	0.0
Arkansas	178,642.3	31,264.3	43,274.2	0.0	87,196.6	0.0	14,363.7	0.0	2,543.5
Department of Agriculture	37,482.1	16,871.8	0.0	0.0	13,178.4	0.0	7,117.0	0.0	314.8
Department of Defense, research	10,185.1	*	3,860.7	0.0	6,324.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	49,576.9	11,521.3	35,197.6	0.0	2,858.1	0.0	0.0	0.0	0.0
Department of Energy	315.0	0.0	0.0	0.0	315.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	65,107.3	0.0	2,669.0	0.0	55,056.6	0.0	7,246.7	0.0	135.0
Department of Homeland Security	856.3	0.0	0.0	0.0	856.3	0.0	0.0	0.0	0.0
Department of the Interior	3,460.1	2,871.2	0.0	0.0	501.8	0.0	0.0	0.0	87.2
Department of Transportation	2,008.6	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2,006.6
Environmental Protection Agency	25.2	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	970.8	0.0	862.0	0.0	108.8	0.0	0.0	0.0	0.0
National Science Foundation	8,654.9	0.0	657.7	0.0	7,997.2	0.0	0.0	0.0	0.0
California	22,768,910.9	2,883,773.8	11,469,397.3	1,317,439.4	3,810,094.3	1,705,808.8	982,317.5	580,207.9	19,872.0
Department of Agriculture	134,937.2	92,930.0	260.3	0.0	41,080.3	0.0	574.6	0.0	92.0
Department of Commerce	13,534.6	203.6	3,594.0	0.0	7,956.6	0.0	1,780.4	0.0	0.0
Department of Defense, research	895,128.9	143,486.7	364,259.1	6,400.6	304,285.5	14,641.7	56,686.1	5,369.3	0.0
Department of Defense, total development[b]	13,385,498.2	2,416,425.2	9,948,619.2	351,574.4	51,304.0	28,285.0	32,136.2	557,154.3	0.0
Department of Energy	1,994,316.2	6,275.4	106,868.3	920,636.7	151,958.4	790,634.6	9,900.4	0.0	8,042.5
Department of Health and Human Services	3,611,962.1	*	190,279.7	6,095.2	2,546,397.3	35,811.0	831,586.3	0.0	1,792.5
Department of Homeland Security	104,195.5	20,523.7	31,347.9	32,549.3	4,807.9	2,526.0	2,783.8	9,656.9	0.0
Department of the Interior	75,896.8	56,426.1	2,628.5	0.0	15,055.0	0.0	777.3	0.0	1,009.9
Department of Transportation	23,760.9	7,508.3	6,385.9	0.0	674.8	0.0	256.7	0.0	8,935.1
Environmental Protection Agency	27,327.0	0.0	19,310.0	0.0	8,016.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,782,931.3	83,557.3	766,489.1	183.3	82,710.1	833,710.5	10,726.7	5,554.3	0.0
National Science Foundation	719,422.3	56,437.3	29,355.2	0.0	595,847.6	200.0	35,109.0	2,473.1	0.0
Colorado	3,815,538.7	294,014.7	2,319,992.7	0.0	512,277.5	131,831.5	375,490.2	173,136.6	8,795.5
Department of Agriculture	48,433.5	36,794.0	92.3	0.0	11,194.1	0.0	230.2	0.0	122.9
Department of Commerce	169,117.8	142,724.2	6,117.9	0.0	17,971.0	1,396.8	908.0	0.0	0.0
Department of Defense, research	84,164.1	10,287.6	43,851.8	0.0	25,400.8	4,152.1	471.7	0.0	0.0
Department of Defense, total development[b]	1,486,869.2	54,789.0	1,114,260.4	0.0	10,228.0	25,766.3	281,735.5	90.0	0.0
Department of Energy	205,914.5	1,222.3	7,638.6	0.0	17,800.5	0.0	7,299.7	171,953.4	0.0
Department of Health and Human Services	336,849.7	0.0	24,967.2	0.0	276,663.1	835.0	32,760.9	0.0	1,623.5
Department of Homeland Security	7,116.5	1,277.8	3,951.4	0.0	794.0	0.0	0.0	1,093.3	0.0
Department of the Interior	41,593.4	33,822.9	917.6	0.0	6,518.4	0.0	129.3	0.0	205.2
Department of Transportation	21,940.2	6,239.8	7,836.8	0.0	2,096.9	0.0	8.2	0.0	5,758.5

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	19,887.1	0.0	18,100.7	0.0	1,786.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,126,857.1	5,839.7	1,066,490.7	0.0	44,376.3	8,702.8	1,447.7	0.0	0.0
National Science Foundation	266,795.6	1,017.3	25,767.3	0.0	97,448.0	90,978.5	50,498.9	0.0	1,085.5
Connecticut	2,425,967.6	239,688.9	1,603,855.8	0.0	550,218.1	0.0	22,621.2	0.0	9,583.5
Department of Agriculture	10,022.7	2,046.4	0.0	0.0	5,254.3	0.0	0.0	0.0	2,722.0
Department of Commerce	4,450.5	0.0	2,998.8	0.0	1,404.7	0.0	47.0	0.0	0.0
Department of Defense, research	56,573.4	592.1	32,607.1	0.0	19,510.8	0.0	3,863.3	0.0	0.0
Department of Defense, total development[b]	1,747,125.0	235,683.8	1,510,288.3	0.0	1,152.8	0.0	0.0	0.0	0.0
Department of Energy	21,334.5	65.0	10,000.2	0.0	11,269.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	487,544.0	0.0	11,472.4	0.0	454,259.9	0.0	18,261.1	0.0	3,550.6
Department of Homeland Security	12,590.3	599.1	10,549.0	0.0	1,442.3	0.0	0.0	0.0	0.0
Department of the Interior	704.2	611.9	0.0	0.0	92.3	0.0	0.0	0.0	0.0
Department of Transportation	13,330.9	0.0	9,796.5	0.0	223.4	0.0	0.0	0.0	3,310.9
Environmental Protection Agency	820.6	0.0	234.9	0.0	585.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	16,481.6	90.7	14,353.5	0.0	2,037.4	0.0	0.0	0.0	0.0
National Science Foundation	54,989.9	0.0	1,555.1	0.0	52,985.0	0.0	449.8	0.0	0.0
Delaware	114,728.2	3,469.5	18,385.5	0.0	86,311.1	0.0	5,187.6	0.0	1,374.5
Department of Agriculture	12,661.8	2,070.8	0.0	0.0	10,591.0	0.0	0.0	0.0	0.0
Department of Commerce	4,179.8	0.0	118.1	0.0	3,845.7	0.0	196.0	0.0	20.0
Department of Defense, research	13,463.0	5.0	2,792.8	0.0	10,665.1	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	15,219.6	57.3	10,414.9	0.0	4,747.5	0.0	0.0	0.0	0.0
Department of Energy	5,419.0	0.0	45.8	0.0	5,373.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	31,294.4	0.0	1,780.7	0.0	24,966.1	0.0	4,412.6	0.0	135.0
Department of Homeland Security	33.3	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,678.5	1,336.3	0.0	0.0	332.2	0.0	10.0	0.0	0.0
Department of Transportation	1,274.9	0.0	55.4	0.0	0.0	0.0	0.0	0.0	1,219.5
Environmental Protection Agency	277.0	0.0	88.2	0.0	188.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,771.2	0.0	3,048.2	0.0	1,722.9	0.0	0.0	0.0	0.0
National Science Foundation	24,455.6	0.0	8.0	0.0	23,878.6	0.0	569.0	0.0	0.0
District of Columbia	3,007,958.4	2,245,404.6	306,652.7	0.0	196,841.7	0.0	254,816.3	2,106.2	2,136.8
Department of Agriculture	307,864.1	287,248.3	17,211.9	0.0	888.0	0.0	1,259.7	0.0	1,256.2
Department of Commerce	29,778.7	26,224.1	1,868.1	0.0	690.0	0.0	996.5	0.0	0.0
Department of Defense, research	308,431.3	266,362.7	23,429.9	0.0	9,542.3	0.0	9,096.4	0.0	0.0
Department of Defense, total development[b]	1,260,109.9	1,051,043.4	184,798.1	0.0	16,887.9	0.0	5,266.7	2,106.2	7.6
Department of Energy	454,158.5	431,769.5	2,669.6	0.0	4,505.2	0.0	15,214.3	0.0	0.0
Department of Health and Human Services	223,492.1	3,218.3	24,783.2	0.0	127,506.9	0.0	67,983.7	0.0	0.0
Department of Homeland Security	39,913.1	32,389.5	4,244.0	0.0	498.1	0.0	2,781.3	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of the Interior	19,540.2	15,873.9	15.0	0.0	120.3	0.0	3,531.0	0.0	0.0
Department of Transportation	106,290.3	64,366.4	36,415.4	0.0	689.6	0.0	3,945.8	0.0	873.0
Environmental Protection Agency	54,948.2	41,320.4	2,576.3	0.0	11,051.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	33,961.3	18,141.5	4,910.1	0.0	4,913.3	0.0	5,996.3	0.0	0.0
National Science Foundation	169,470.8	7,446.6	3,731.1	0.0	19,548.5	0.0	138,744.6	0.0	0.0
Florida	2,481,826.6	792,345.2	896,025.5	0.0	665,757.6	0.0	118,857.9	0.0	8,840.4
Department of Agriculture	72,825.6	45,642.1	0.0	0.0	26,725.2	0.0	117.0	0.0	341.3
Department of Commerce	38,087.2	25,112.6	3,938.5	0.0	8,100.2	0.0	436.0	0.0	500.0
Department of Defense, research	178,548.3	73,259.7	36,519.1	0.0	61,402.4	0.0	7,367.1	0.0	0.0
Department of Defense, total development[b]	1,375,493.0	581,375.4	762,796.5	0.0	23,565.6	0.0	7,471.0	0.0	284.6
Department of Energy	33,237.3	102.9	5,447.0	0.0	27,017.7	0.0	669.8	0.0	0.0
Department of Health and Human Services	496,037.3	67.8	16,031.8	0.0	379,597.0	0.0	100,090.5	0.0	250.2
Department of Homeland Security	1,604.5	0.0	1,121.3	0.0	483.2	0.0	0.0	0.0	0.0
Department of the Interior	21,572.0	16,178.2	1,003.5	0.0	3,893.1	0.0	29.0	0.0	468.1
Department of Transportation	26,555.0	385.0	14,040.5	0.0	3,095.4	0.0	2,037.8	0.0	6,996.2
Environmental Protection Agency	12,667.2	10,948.8	1,702.2	0.0	16.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	100,382.4	39,272.7	51,804.0	0.0	9,155.7	0.0	150.0	0.0	0.0
National Science Foundation	124,816.9	0.0	1,621.0	0.0	122,706.1	0.0	489.8	0.0	0.0
Georgia	1,421,811.7	182,862.5	519,644.9	0.0	674,240.5	0.0	36,651.0	0.0	8,413.0
Department of Agriculture	76,343.0	53,890.4	0.0	0.0	21,574.6	0.0	496.4	0.0	381.7
Department of Commerce	1,702.2	0.0	9.9	0.0	1,630.3	0.0	0.0	0.0	62.0
Department of Defense, research	76,027.8	5,521.7	7,724.1	0.0	58,916.9	0.0	3,865.2	0.0	0.0
Department of Defense, total development[b]	523,458.2	35,958.8	459,524.8	0.0	18,385.5	0.0	9,589.1	0.0	0.0
Department of Energy	24,395.9	0.0	584.9	0.0	13,689.6	0.0	10,121.3	0.0	0.0
Department of Health and Human Services	583,057.8	73,972.2	39,758.8	0.0	455,184.2	0.0	12,243.5	0.0	1,899.1
Department of Homeland Security	5,644.1	2,793.7	2,814.3	0.0	0.0	0.0	36.1	0.0	0.0
Department of the Interior	5,607.3	4,300.0	0.0	0.0	1,243.6	0.0	0.0	0.0	63.7
Department of Transportation	12,705.6	0.0	2,485.9	0.0	4,213.1	0.0	0.0	0.0	6,006.5
Environmental Protection Agency	10,508.0	5,512.4	2,184.4	0.0	2,811.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	13,787.1	913.2	3,148.7	0.0	9,725.2	0.0	0.0	0.0	0.0
National Science Foundation	88,574.7	0.0	1,409.0	0.0	86,866.4	0.0	299.3	0.0	0.0
Hawaii	403,573.6	111,537.7	122,271.3	0.0	154,046.7	0.0	14,961.9	0.0	756.0
Department of Agriculture	21,531.0	11,931.3	0.0	0.0	8,406.2	0.0	1,186.1	0.0	7.3
Department of Commerce	6,775.5	3,769.7	0.0	0.0	2,937.8	0.0	54.0	0.0	14.0
Department of Defense, research	44,226.5	4,018.2	23,055.8	0.0	17,152.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	206,279.9	85,243.2	93,497.0	0.0	19,733.6	0.0	7,806.1	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	3,465.9	0.0	0.0	0.0	3,465.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	60,298.5	0.0	4,583.5	0.0	51,675.8	0.0	3,876.5	0.0	162.7
Department of Homeland Security	1,397.6	0.0	0.0	0.0	1,397.6	0.0	0.0	0.0	0.0
Department of the Interior	8,056.2	6,418.0	0.0	0.0	1,638.2	0.0	0.0	0.0	0.0
Department of Transportation	521.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	521.3
National Aeronautics and Space Administration	13,459.1	157.4	969.0	0.0	12,282.1	0.0	0.0	0.0	50.6
National Science Foundation	37,562.1	0.0	166.0	0.0	35,357.0	0.0	2,039.1	0.0	0.0
Idaho	430,211.7	50,617.9	62,587.2	278,958.0	35,246.7	0.0	1,760.0	0.0	1,041.9
Department of Agriculture	26,532.1	18,071.4	0.0	0.0	8,340.7	0.0	0.0	0.0	120.0
Department of Commerce	593.0	362.0	0.0	0.0	204.0	0.0	0.0	0.0	27.0
Department of Defense, research	7,117.7	925.3	5,047.5	0.0	1,145.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	25,255.8	15,171.7	7,291.7	2,792.4	0.0	0.0	0.0	0.0	0.0
Department of Energy	327,050.5	0.0	48,540.4	275,371.8	2,096.5	0.0	1,041.7	0.0	0.0
Department of Health and Human Services	10,512.4	0.0	154.9	0.0	9,643.9	0.0	713.5	0.0	0.0
Department of Homeland Security	793.7	0.0	0.0	793.7	0.0	0.0	0.0	0.0	0.0
Department of the Interior	19,943.0	16,087.5	159.0	0.0	3,691.7	0.0	4.8	0.0	0.0
Department of Transportation	649.3	0.0	0.6	0.0	136.0	0.0	0.0	0.0	512.8
Environmental Protection Agency	288.2	0.0	288.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	976.6	0.0	255.9	0.0	720.7	0.0	0.0	0.0	0.0
National Science Foundation	10,499.3	0.0	849.0	0.0	9,268.2	0.0	0.0	0.0	382.2
Illinois	2,878,085.3	360,796.6	398,155.1	0.0	1,225,657.6	794,460.5	89,662.5	0.0	9,353.0
Department of Agriculture	57,607.5	44,125.3	418.9	0.0	12,399.3	0.0	459.3	0.0	204.9
Department of Commerce	3,304.9	0.0	2,443.0	0.0	761.9	0.0	100.0	0.0	0.0
Department of Defense, research	141,343.5	21,199.6	17,581.9	0.0	97,999.5	646.6	3,915.8	0.0	0.0
Department of Defense, total development[b]	397,320.8	268,957.8	109,663.6	0.0	6,873.8	564.5	7,243.2	0.0	4,017.9
Department of Energy	1,038,479.0	3,803.9	169,705.9	0.0	78,089.2	784,119.3	2,760.7	0.0	0.0
Department of Health and Human Services	802,977.9	121.0	29,594.9	0.0	709,459.8	7,158.1	56,367.2	0.0	277.0
Department of Homeland Security	7,202.2	3,295.1	2,439.4	0.0	0.0	1,467.7	0.0	0.0	0.0
Department of the Interior	12,977.1	10,422.5	5.0	0.0	1,961.4	482.4	105.8	0.0	0.0
Department of Transportation	46,598.3	4,006.2	20,928.7	0.0	8,421.5	0.0	8,388.7	0.0	4,853.2
Environmental Protection Agency	10,459.2	0.0	8,120.4	0.0	2,338.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	44,549.0	4,865.1	33,183.3	0.0	6,468.7	22.0	9.9	0.0	0.0
National Science Foundation	315,265.8	0.0	4,070.2	0.0	300,883.8	0.0	10,311.8	0.0	0.0
Indiana	903,000.0	147,892.3	312,872.4	0.0	417,216.1	0.0	1,288.3	0.0	23,730.8
Department of Agriculture	22,711.3	6,847.6	0.0	0.0	15,538.8	0.0	0.0	0.0	324.9
Department of Commerce	1,653.8	0.0	0.0	0.0	1,653.8	0.0	0.0	0.0	0.0
Department of Defense, research	64,337.5	13,665.1	16,904.7	0.0	33,767.7	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development[b]	401,665.1	118,425.2	265,166.0	0.0	1,166.3	0.0	0.0	0.0	16,907.6
Department of Energy	20,476.1	0.0	25.4	0.0	20,450.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	220,723.5	0.0	8,603.1	0.0	210,246.4	0.0	1,216.1	0.0	657.9
Department of Homeland Security	7,464.8	909.0	2,547.9	0.0	4,007.9	0.0	0.0	0.0	0.0
Department of the Interior	6,335.1	5,458.7	0.0	0.0	764.4	0.0	0.0	0.0	112.0
Department of Transportation	23,129.4	2,518.6	13,829.5	0.0	1,053.0	0.0	0.0	0.0	5,728.3
Environmental Protection Agency	681.9	0.0	569.8	0.0	112.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,337.4	68.1	2,762.3	0.0	5,496.9	0.0	10.0	0.0	0.0
National Science Foundation	125,484.1	0.0	2,463.6	0.0	122,958.3	0.0	62.2	0.0	0.0
Iowa	695,338.5	60,239.6	282,396.1	0.0	311,007.0	28,426.5	11,012.1	0.0	2,257.2
Department of Agriculture	82,480.3	52,303.8	0.0	0.0	30,021.7	0.0	119.8	0.0	35.0
Department of Commerce	567.0	0.0	0.0	0.0	567.0	0.0	0.0	0.0	0.0
Department of Defense, research	26,162.0	0.0	10,581.7	0.0	12,510.1	3,070.2	0.0	0.0	0.0
Department of Defense, total development[b]	271,346.3	1,433.3	266,893.2	0.0	3,019.7	0.0	0.0	0.0	0.0
Department of Energy	39,659.3	0.0	0.0	0.0	8,238.1	25,345.2	6,076.0	0.0	0.0
Department of Health and Human Services	210,440.5	0.0	2,550.8	0.0	202,447.3	0.0	4,816.3	0.0	626.1
Department of the Interior	6,903.3	5,633.8	0.0	0.0	660.9	0.0	0.0	0.0	608.5
Department of Transportation	1,785.2	0.0	0.9	0.0	881.8	0.0	0.0	0.0	902.5
Environmental Protection Agency	2,059.3	0.0	28.5	0.0	2,030.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,909.3	868.7	1,475.2	0.0	2,554.4	11.1	0.0	0.0	0.0
National Science Foundation	49,026.1	0.0	865.9	0.0	48,075.1	0.0	0.0	0.0	85.1
Kansas	367,779.8	39,289.6	157,939.1	0.0	164,127.5	0.0	5,501.2	0.0	922.4
Department of Agriculture	25,863.0	13,559.3	0.0	0.0	12,303.7	0.0	0.0	0.0	0.0
Department of Defense, research	9,312.1	680.2	947.6	0.0	5,430.6	0.0	2,253.8	0.0	0.0
Department of Defense, total development[b]	173,767.0	20,593.6	152,104.5	0.0	1,068.9	0.0	0.0	0.0	0.0
Department of Energy	5,817.1	0.0	380.4	0.0	5,436.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	107,044.6	0.0	2,198.9	0.0	101,908.8	0.0	2,936.9	0.0	0.0
Department of Homeland Security	2,119.4	0.0	1.0	0.0	2,118.5	0.0	0.0	0.0	0.0
Department of the Interior	5,525.3	4,450.8	0.0	0.0	848.3	0.0	226.3	0.0	0.0
Department of Transportation	3,308.9	0.0	0.0	0.0	2,386.5	0.0	0.0	0.0	922.4
Environmental Protection Agency	811.1	0.0	811.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,495.9	5.8	1,345.6	0.0	1,144.4	0.0	0.0	0.0	0.0
National Science Foundation	31,715.4	0.0	150.0	0.0	31,481.2	0.0	84.1	0.0	0.0
Kentucky	241,959.2	13,146.6	30,377.5	0.0	188,367.6	0.0	5,428.4	0.0	4,639.1
Department of Agriculture	19,097.4	3,508.6	0.0	0.0	15,353.8	0.0	0.0	0.0	235.0
Department of Commerce	155.3	0.0	90.0	0.0	65.3	0.0	0.0	0.0	0.0
Department of Defense, research	10,131.4	997.8	1,277.2	0.0	4,308.4	0.0	3,548.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development[b]	13,879.8	1,476.0	9,957.3	0.0	2,446.5	0.0	0.0	0.0	0.0
Department of Energy	3,287.9	0.0	0.0	0.0	3,287.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	159,256.8	0.0	15,551.1	0.0	143,447.9	0.0	0.0	0.0	257.8
Department of Homeland Security	2,443.1	0.0	1,210.1	0.0	0.0	0.0	1,233.1	0.0	0.0
Department of the Interior	6,221.7	5,646.4	0.0	0.0	546.3	0.0	0.0	0.0	29.0
Department of Transportation	7,899.0	1,420.1	16.2	0.0	2,353.3	0.0	362.0	0.0	3,747.4
Environmental Protection Agency	847.2	0.0	564.0	0.0	283.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,425.6	97.6	761.2	0.0	566.8	0.0	0.0	0.0	0.0
National Science Foundation	17,313.9	0.0	950.5	0.0	15,708.2	0.0	285.4	0.0	369.8
Louisiana	597,294.0	319,908.4	35,132.8	0.0	224,599.7	0.0	7,189.9	0.0	10,463.1
Department of Agriculture	55,339.0	37,650.4	0.0	0.0	17,688.6	0.0	0.0	0.0	0.0
Department of Commerce	1,312.9	0.0	0.0	0.0	1,209.9	0.0	50.0	0.0	53.0
Department of Defense, research	9,180.2	279.8	2,368.6	0.0	6,426.1	0.0	105.7	0.0	0.0
Department of Defense, total development[b]	304,192.3	272,261.0	22,651.8	0.0	4,349.5	0.0	4,930.0	0.0	0.0
Department of Energy	6,243.8	0.0	487.2	0.0	5,756.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	172,763.3	2,563.4	3,667.4	0.0	164,246.9	0.0	2,007.9	0.0	277.8
Department of Homeland Security	6.9	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	9,798.9	7,153.8	1,374.7	0.0	1,168.3	0.0	2.0	0.0	100.0
Department of Transportation	5,519.3	0.0	0.2	0.0	0.0	0.0	89.2	0.0	5,429.9
Environmental Protection Agency	159.6	0.0	159.6	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,662.2	0.0	3,618.0	0.0	1,044.2	0.0	0.0	0.0	0.0
National Science Foundation	28,115.5	0.0	798.4	0.0	22,709.7	0.0	5.0	0.0	4,602.4
Maine	179,968.8	20,155.8	53,518.2	0.0	26,752.6	0.0	77,586.4	0.0	1,955.9
Department of Agriculture	11,089.0	3,825.4	0.0	0.0	6,712.1	0.0	0.0	0.0	551.5
Department of Commerce	1,655.7	0.0	0.0	0.0	1,244.7	0.0	70.0	0.0	341.0
Department of Defense, research	8,682.4	6.0	6,227.0	0.0	551.7	0.0	1,897.7	0.0	0.0
Department of Defense, total development[b]	56,106.6	13,002.5	43,019.9	0.0	84.1	0.0	0.0	0.0	0.0
Department of Energy	814.9	0.0	0.0	0.0	620.0	0.0	194.9	0.0	0.0
Department of Health and Human Services	77,411.9	0.0	1,169.6	0.0	4,439.9	0.0	71,440.2	0.0	362.3
Department of Homeland Security	33.8	0.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,145.5	3,321.9	0.0	0.0	425.3	0.0	100.0	0.0	298.4
Department of Transportation	1,785.4	0.0	1,382.7	0.0	0.0	0.0	0.0	0.0	402.6
Environmental Protection Agency	345.0	0.0	345.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,056.7	0.0	860.8	0.0	1,196.0	0.0	0.0	0.0	0.0
National Science Foundation	15,841.9	0.0	479.4	0.0	11,478.9	0.0	3,883.6	0.0	0.0
Maryland	15,750,592.7	9,901,940.8	3,537,669.9	451,668.0	1,532,308.2	0.0	324,074.3	0.0	2,931.5
Department of Agriculture	161,656.6	146,793.1	308.0	0.0	12,849.3	0.0	1,698.0	0.0	8.2

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Commerce	526,063.3	495,104.1	8,794.6	0.0	21,773.1	0.0	383.5	0.0	8.0
Department of Defense, research	705,714.2	476,898.4	145,999.4	0.0	73,303.0	0.0	9,513.3	0.0	0.0
Department of Defense, total development[b]	5,707,666.5	2,996,631.5	2,427,987.2	4,325.5	224,155.6	0.0	54,167.0	0.0	399.7
Department of Energy	24,011.6	3,109.1	1,573.6	0.0	17,770.5	0.0	1,558.4	0.0	0.0
Department of Health and Human Services	7,412,637.4	5,375,513.5	493,732.0	447,342.5	935,321.3	0.0	159,090.3	0.0	1,637.8
Department of Homeland Security	60,684.2	37,545.4	7,744.3	0.0	15,228.5	0.0	166.0	0.0	0.0
Department of the Interior	5,715.1	4,595.2	432.6	0.0	517.3	0.0	122.0	0.0	48.0
Department of Transportation	32,525.1	6,100.1	18,718.6	0.0	6,321.0	0.0	635.7	0.0	749.7
Environmental Protection Agency	68,476.7	506.6	64,531.6	0.0	3,438.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	933,655.6	353,505.7	363,267.0	0.0	125,855.9	0.0	91,027.0	0.0	0.0
National Science Foundation	111,786.2	5,638.1	4,580.9	0.0	95,774.2	0.0	5,713.1	0.0	80.0
Massachusetts	7,758,388.4	520,506.4	3,197,800.6	0.0	1,637,994.8	421,562.9	1,536,655.5	435,253.8	8,614.2
Department of Agriculture	30,433.5	11,615.0	44.5	0.0	18,763.0	0.0	11.0	0.0	0.0
Department of Commerce	33,407.3	13,445.9	10,429.0	0.0	9,196.4	0.0	327.0	0.0	9.0
Department of Defense, research	414,519.6	31,987.1	166,009.4	0.0	144,567.4	48,629.4	22,866.1	460.3	0.0
Department of Defense, total development[b]	4,010,499.5	356,360.1	2,755,047.0	0.0	44,499.7	359,060.9	57,198.6	434,793.5	3,539.7
Department of Energy	117,119.8	4,992.9	6,049.6	0.0	101,583.8	0.0	4,493.5	0.0	0.0
Department of Health and Human Services	2,541,844.6	399.8	152,012.8	0.0	980,833.9	0.0	1,404,205.3	0.0	4,392.7
Department of Homeland Security	36,763.3	1,693.8	15,770.3	0.0	5,438.0	13,861.2	0.0	0.0	0.0
Department of the Interior	13,084.2	9,634.0	748.0	0.0	1,344.7	0.0	1,307.5	0.0	50.0
Department of Transportation	59,580.0	50,062.4	6,424.1	0.0	1,788.1	11.5	671.2	0.0	622.8
Environmental Protection Agency	20,680.9	0.0	14,672.2	0.0	6,008.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	114,055.7	39,307.4	40,640.8	0.0	33,994.5	0.0	113.0	0.0	0.0
National Science Foundation	366,399.7	1,008.0	29,953.1	0.0	289,976.3	0.0	45,462.3	0.0	0.0
Michigan	2,153,449.0	497,613.4	669,583.7	0.0	929,710.8	0.0	52,865.1	0.0	3,675.9
Department of Agriculture	38,368.0	6,647.9	0.0	0.0	31,703.3	0.0	16.8	0.0	0.0
Department of Commerce	16,277.9	8,415.0	1,446.9	0.0	5,727.1	0.0	38.0	0.0	651.0
Department of Defense, research	104,992.7	40,038.1	22,707.8	0.0	42,246.8	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	902,118.9	427,431.9	434,603.6	0.0	16,818.7	0.0	23,264.6	0.0	0.0
Department of Energy	32,430.8	0.0	3,029.2	0.0	29,401.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	834,182.5	0.0	186,787.0	0.0	621,053.8	0.0	25,348.8	0.0	992.9
Department of Homeland Security	910.1	0.0	639.7	0.0	270.4	0.0	0.0	0.0	0.0
Department of the Interior	11,632.1	9,635.5	0.0	0.0	1,894.6	0.0	0.0	0.0	102.0
Department of Transportation	18,564.0	4,344.6	6,435.2	0.0	1,837.1	0.0	4,017.1	0.0	1,930.1
Environmental Protection Agency	6,977.8	1,039.9	1,012.8	0.0	4,925.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	22,757.9	60.5	8,437.1	0.0	14,260.2	0.0	0.0	0.0	0.0
National Science Foundation	164,236.1	0.0	4,484.3	0.0	159,572.1	0.0	179.7	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Minnesota	949,293.0	100,627.0	221,325.4	0.0	401,766.1	0.0	219,387.9	0.0	6,186.6
Department of Agriculture	40,925.0	21,888.2	0.0	0.0	18,339.3	0.0	50.0	0.0	647.5
Department of Commerce	1,667.8	0.0	820.2	0.0	847.5	0.0	0.0	0.0	0.0
Department of Defense, research	30,519.5	416.4	18,089.6	0.0	10,289.1	0.0	1,724.4	0.0	0.0
Department of Defense, total development[b]	235,697.7	54,941.3	177,971.7	0.0	2,163.1	0.0	621.6	0.0	0.0
Department of Energy	14,573.8	0.0	817.4	0.0	13,756.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	502,573.8	0.0	13,173.8	0.0	270,825.5	0.0	216,292.6	0.0	2,281.9
Department of Homeland Security	7,978.3	0.0	0.2	0.0	7,978.1	0.0	0.0	0.0	0.0
Department of the Interior	10,424.2	8,370.3	15.0	0.0	1,420.7	0.0	66.7	0.0	551.5
Department of Transportation	4,320.5	0.0	1,609.3	0.0	0.0	0.0	5.5	0.0	2,705.6
Environmental Protection Agency	15,972.7	14,905.0	878.9	0.0	188.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,208.8	105.8	4,405.4	0.0	2,697.6	0.0	0.0	0.0	0.0
National Science Foundation	77,430.9	0.0	3,543.9	0.0	73,260.0	0.0	627.0	0.0	0.0
Mississippi	588,082.5	230,751.1	246,960.5	0.0	106,066.6	0.0	739.8	0.0	3,564.5
Department of Agriculture	88,193.8	61,252.5	0.0	0.0	26,245.6	0.0	383.5	0.0	312.3
Department of Commerce	635.7	0.0	0.0	0.0	510.7	0.0	98.0	0.0	27.0
Department of Defense, research	55,919.8	36,527.2	9,553.0	0.0	9,839.6	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	368,691.2	121,683.6	234,876.7	0.0	12,131.0	0.0	0.0	0.0	0.0
Department of Energy	2,595.5	0.0	0.0	0.0	2,595.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	40,179.1	0.0	167.4	0.0	38,837.3	0.0	243.4	0.0	931.1
Department of Homeland Security	4,876.6	3,179.4	0.0	0.0	1,697.2	0.0	0.0	0.0	0.0
Department of the Interior	4,342.3	3,635.2	0.0	0.0	517.7	0.0	15.0	0.0	174.4
Department of Transportation	2,121.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2,119.8
Environmental Protection Agency	128.1	0.0	12.8	0.0	115.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,805.2	4,473.2	2,348.9	0.0	983.1	0.0	0.0	0.0	0.0
National Science Foundation	12,593.7	0.0	0.0	0.0	12,593.7	0.0	0.0	0.0	0.0
Missouri	1,193,265.6	53,332.3	559,182.4	0.0	546,570.0	0.0	28,507.7	0.0	5,673.3
Department of Agriculture	35,082.5	17,541.1	0.0	0.0	17,537.4	0.0	4.0	0.0	0.0
Department of Commerce	2,392.0	0.0	2,110.0	0.0	282.0	0.0	0.0	0.0	0.0
Department of Defense, research	27,269.5	206.3	16,341.9	0.0	10,721.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	497,834.7	25,428.6	471,126.4	0.0	1,279.7	0.0	0.0	0.0	0.0
Department of Energy	79,841.0	0.0	56,283.8	0.0	11,842.9	0.0	9,316.4	0.0	2,397.9
Department of Health and Human Services	488,157.9	752.5	7,351.0	0.0	464,408.0	0.0	15,483.6	0.0	162.8
Department of Homeland Security	1,473.5	0.0	24.5	0.0	22.5	0.0	1,426.5	0.0	0.0
Department of the Interior	11,498.0	9,292.6	0.0	0.0	1,682.6	0.0	0.0	0.0	522.8
Department of Transportation	3,081.9	0.0	192.2	0.0	300.0	0.0	0.0	0.0	2,589.8

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	416.6	0.0	379.6	0.0	37.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,066.6	111.2	4,230.4	0.0	5,725.0	0.0	0.0	0.0	0.0
National Science Foundation	36,151.3	0.0	1,142.6	0.0	32,731.5	0.0	2,277.2	0.0	0.0
Montana	181,657.3	68,417.3	34,694.0	0.0	67,038.3	0.0	6,672.3	0.0	4,835.5
Department of Agriculture	23,838.4	15,821.1	7.2	0.0	7,487.5	0.0	494.4	0.0	28.2
Department of Commerce	229.2	0.0	66.0	0.0	163.2	0.0	0.0	0.0	0.0
Department of Defense, research	20,803.6	1,591.7	13,968.1	0.0	5,243.8	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	13,072.8	618.1	8,302.8	0.0	2,618.8	0.0	1,533.0	0.0	0.0
Department of Energy	6,474.9	0.0	0.0	0.0	5,755.0	0.0	719.9	0.0	0.0
Department of Health and Human Services	80,149.7	39,037.1	7,886.9	0.0	29,303.9	0.0	3,921.9	0.0	0.0
Department of the Interior	14,233.3	11,349.4	0.0	0.0	2,880.9	0.0	3.0	0.0	0.0
Department of Transportation	807.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	807.3
Environmental Protection Agency	4.6	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,490.6	0.0	3,657.7	0.0	3,832.8	0.0	0.0	0.0	0.0
National Science Foundation	14,553.1	0.0	800.7	0.0	9,752.4	0.0	0.0	0.0	4,000.0
Nebraska	262,148.0	57,322.7	72,286.0	0.0	122,069.1	0.0	8,340.9	0.0	2,129.2
Department of Agriculture	36,649.6	25,465.9	0.0	0.0	11,183.7	0.0	0.0	0.0	0.0
Department of Commerce	348.3	0.0	0.0	0.0	342.3	0.0	6.0	0.0	0.0
Department of Defense, research	19,150.8	7,569.5	8,066.9	0.0	3,514.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	87,088.9	21,044.0	57,598.5	0.0	6,346.3	0.0	2,100.0	0.0	0.0
Department of Energy	1,624.2	0.0	0.0	0.0	1,624.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	85,337.3	0.0	2,335.1	0.0	76,881.1	0.0	5,843.2	0.0	278.0
Department of the Interior	4,013.8	3,237.0	0.0	0.0	551.1	0.0	185.7	0.0	40.0
Department of Transportation	8,309.4	0.0	3,557.0	0.0	2,941.1	0.0	0.0	0.0	1,811.2
Environmental Protection Agency	346.1	0.0	31.4	0.0	314.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	542.6	6.3	18.0	0.0	518.3	0.0	0.0	0.0	0.0
National Science Foundation	18,737.0	0.0	679.1	0.0	17,851.9	0.0	206.0	0.0	0.0
Nevada	478,098.5	82,979.0	348,560.7	0.0	43,211.4	0.0	2,463.8	0.0	883.7
Department of Agriculture	4,799.0	2,451.3	63.1	0.0	2,280.6	0.0	0.0	0.0	4.1
Department of Commerce	240.0	0.0	0.0	0.0	240.0	0.0	0.0	0.0	0.0
Department of Defense, research	7,520.0	5,245.5	840.5	0.0	1,434.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	174,738.9	52,832.0	119,250.4	0.0	2,656.5	0.0	0.0	0.0	0.0
Department of Energy	224,473.6	0.0	221,426.3	0.0	2,181.6	0.0	865.7	0.0	0.0
Department of Health and Human Services	20,825.3	0.0	229.4	0.0	19,051.7	0.0	1,544.1	0.0	0.0
Department of Homeland Security	1,934.6	1,374.4	0.0	0.0	560.3	0.0	0.0	0.0	0.0
Department of the Interior	8,163.4	6,402.4	59.6	0.0	1,647.5	0.0	53.9	0.0	0.0
Department of Transportation	971.8	0.0	6.0	0.0	86.2	0.0	0.0	0.0	879.6

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	14,655.8	14,293.1	362.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,713.9	380.2	5,714.7	0.0	1,619.0	0.0	0.0	0.0	0.0
National Science Foundation	12,062.1	0.0	608.0	0.0	11,454.1	0.0	0.0	0.0	0.0
New Hampshire	406,011.8	39,245.5	226,980.4	0.0	137,020.5	0.0	2,005.9	0.0	759.6
Department of Agriculture	11,273.9	5,916.6	0.0	0.0	5,082.5	0.0	274.8	0.0	0.0
Department of Commerce	4,694.1	0.0	0.0	0.0	4,694.1	0.0	0.0	0.0	0.0
Department of Defense, research	34,621.4	5,664.3	24,679.3	0.0	3,928.9	0.0	348.8	0.0	0.0
Department of Defense, total development[b]	209,851.7	19,628.7	187,150.3	0.0	3,072.6	0.0	0.0	0.0	0.0
Department of Energy	2,319.6	0.0	0.0	0.0	2,319.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	90,012.7	0.0	6,915.4	0.0	82,632.7	0.0	300.0	0.0	164.6
Department of Homeland Security	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,369.1	5,006.3	0.0	0.0	803.0	0.0	421.8	0.0	138.0
Department of Transportation	485.9	0.0	28.9	0.0	0.0	0.0	0.0	0.0	457.0
Environmental Protection Agency	21.2	0.0	2.3	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	17,211.8	1,104.3	7,903.2	0.0	8,183.9	0.0	20.4	0.0	0.0
National Science Foundation	29,149.5	1,925.3	300.0	0.0	26,284.2	0.0	640.0	0.0	0.0
New Jersey	2,582,709.2	527,971.7	1,473,931.0	0.0	426,743.8	60,700.0	17,339.4	0.0	76,023.2
Department of Agriculture	15,188.3	35.2	1,925.6	0.0	13,221.5	0.0	0.0	0.0	6.0
Department of Commerce	28,394.5	19,825.0	3,022.0	0.0	5,484.5	0.0	63.0	0.0	0.0
Department of Defense, research	174,671.2	72,407.2	62,425.8	0.0	38,748.7	0.0	1,089.4	0.0	0.0
Department of Defense, total development[b]	1,843,913.6	409,491.2	1,349,752.6	0.0	10,336.7	0.0	2,143.3	0.0	72,189.7
Department of Energy	91,502.4	124.5	4,819.1	0.0	25,052.6	60,700.0	806.2	0.0	0.0
Department of Health and Human Services	259,321.4	0.0	29,686.4	0.0	215,826.0	0.0	13,168.9	0.0	640.1
Department of Homeland Security	9,558.9	731.0	2,963.9	0.0	5,844.1	0.0	20.0	0.0	0.0
Department of the Interior	4,513.8	3,442.6	0.0	0.0	798.4	0.0	0.0	0.0	272.8
Department of Transportation	30,881.0	20,896.5	5,852.8	0.0	1,217.2	0.0	0.0	0.0	2,914.5
Environmental Protection Agency	2,853.2	0.0	2,103.5	0.0	749.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	14,197.1	918.5	9,399.4	0.0	3,830.5	0.0	48.7	0.0	0.0
National Science Foundation	107,713.8	100.0	1,979.8	0.0	105,634.0	0.0	0.0	0.0	0.0
New Mexico	3,456,208.0	574,673.6	370,300.4	2,316,257.8	154,658.5	0.0	33,073.2	0.0	7,244.5
Department of Agriculture	11,259.5	6,798.2	103.0	0.0	2,843.8	0.0	1,160.0	0.0	354.4
Department of Commerce	513.8	0.0	12.4	0.0	501.4	0.0	0.0	0.0	0.0
Department of Defense, research	272,433.9	114,519.3	113,984.6	29,447.4	13,575.2	0.0	152.3	0.0	755.1
Department of Defense, total development[b]	819,428.4	340,753.1	237,743.4	230,286.4	7,429.4	0.0	3,022.8	0.0	193.3
Department of Energy	2,056,353.3	75,795.5	1,419.0	1,953,783.9	21,413.0	0.0	2,488.3	0.0	1,453.6
Department of Health and Human Services	114,736.6	1,000.0	4,347.3	9,705.2	76,797.7	0.0	21,566.2	0.0	1,320.2
Department of Homeland Security	30,066.6	0.0	817.7	28,999.3	249.6	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of the Interior	29,233.1	26,955.4	105.0	0.0	2,172.8	0.0	0.0	0.0	0.0
Department of Transportation	68,811.6	1,437.9	850.1	63,584.7	170.0	0.0	8.3	0.0	2,760.7
Environmental Protection Agency	2,724.0	0.0	2,705.1	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	16,938.2	6,950.8	7,046.6	450.9	2,489.8	0.0	0.0	0.0	0.0
National Science Foundation	33,709.0	463.4	1,166.3	0.0	26,996.8	0.0	4,675.3	0.0	407.2
New York	5,042,119.6	210,069.9	1,810,582.6	0.0	2,210,028.4	0.0	350,589.5	369,322.5	91,526.7
Department of Agriculture	43,917.7	18,279.1	25.5	0.0	23,966.9	0.0	1,646.2	0.0	0.0
Department of Commerce	21,673.4	0.0	362.0	0.0	21,252.7	0.0	58.7	0.0	0.0
Department of Defense, research	237,958.1	81,778.0	61,704.7	0.0	90,591.5	0.0	3,648.6	235.3	0.0
Department of Defense, total development[b]	1,324,580.9	76,343.2	1,232,962.6	0.0	8,653.9	0.0	6,547.5	73.8	0.0
Department of Energy	864,538.3	8,582.7	381,290.5	0.0	116,562.7	0.0	2,869.0	355,233.3	0.0
Department of Health and Human Services	2,073,686.4	136.0	77,731.7	0.0	1,591,120.0	0.0	315,734.7	7,571.4	81,392.6
Department of Homeland Security	22,944.1	17,992.6	1,744.2	0.0	2,431.0	0.0	776.3	0.0	0.0
Department of the Interior	5,843.7	4,307.6	320.8	0.0	766.4	0.0	157.7	0.0	291.2
Department of Transportation	15,375.1	2,518.6	6,879.5	0.0	940.5	0.0	0.0	0.0	5,036.6
Environmental Protection Agency	6,895.5	0.0	4,055.0	0.0	2,840.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	65,315.3	132.1	34,854.5	0.0	23,865.2	0.0	254.9	6,208.6	0.0
National Science Foundation	359,391.1	0.0	8,651.5	0.0	327,037.2	0.0	18,896.2	0.0	4,806.3
North Carolina	2,060,306.3	386,539.6	214,093.2	0.0	1,264,294.7	0.0	190,015.7	0.0	5,363.2
Department of Agriculture	52,716.0	22,563.0	0.0	0.0	29,214.2	0.0	601.1	0.0	337.7
Department of Commerce	23,571.5	13,700.8	7,346.0	0.0	2,302.9	0.0	119.8	0.0	102.0
Department of Defense, research	96,239.4	24,115.8	23,457.3	0.0	48,628.6	0.0	37.7	0.0	0.0
Department of Defense, total development[b]	236,410.7	36,242.3	55,803.1	0.0	107,636.4	0.0	36,399.4	0.0	329.4
Department of Energy	24,631.7	298.9	0.0	0.0	22,343.2	0.0	1,989.6	0.0	0.0
Department of Health and Human Services	1,266,644.2	130,603.0	99,959.1	0.0	895,608.0	0.0	139,465.1	0.0	1,009.0
Department of Homeland Security	10,070.6	852.4	1,420.4	0.0	4,621.7	0.0	3,176.1	0.0	0.0
Department of the Interior	29,729.0	23,658.0	149.9	0.0	5,645.0	0.0	0.0	0.0	276.1
Department of Transportation	21,430.6	5,429.0	5,376.6	0.0	2,326.6	0.0	4,989.4	0.0	3,309.0
Environmental Protection Agency	149,911.2	128,942.0	17,443.6	0.0	3,525.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,096.5	134.3	2,151.0	0.0	2,677.8	0.0	1,133.4	0.0	0.0
National Science Foundation	142,854.9	0.0	986.1	0.0	139,764.8	0.0	2,104.1	0.0	0.0
North Dakota	117,702.5	29,132.8	12,620.5	0.0	73,100.2	0.0	2,839.0	0.0	10.0
Department of Agriculture	37,510.2	26,809.3	0.0	0.0	10,700.9	0.0	0.0	0.0	0.0
Department of Commerce	1,619.6	0.0	1,460.6	0.0	159.0	0.0	0.0	0.0	0.0
Department of Defense, research	4,398.1	0.0	73.1	0.0	4,324.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	24,288.4	0.0	8,581.1	0.0	15,707.3	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	13,228.1	0.0	0.0	0.0	11,281.0	0.0	1,947.1	0.0	0.0
Department of Health and Human Services	18,182.9	0.0	2,075.9	0.0	15,215.2	0.0	891.9	0.0	0.0
Department of the Interior	2,630.0	2,312.6	0.0	0.0	307.3	0.0	0.0	0.0	10.0
Department of Transportation	1,224.3	0.0	0.0	0.0	1,224.3	0.0	0.0	0.0	0.0
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,194.4	10.8	4.1	0.0	1,179.5	0.0	0.0	0.0	0.0
National Science Foundation	13,407.6	0.0	425.6	0.0	12,982.0	0.0	0.0	0.0	0.0
Ohio	3,554,656.3	960,129.9	1,637,562.9	0.0	777,704.6	0.0	176,072.3	0.0	3,186.7
Department of Agriculture	26,587.8	12,776.6	0.0	0.0	13,197.2	0.0	608.0	0.0	6.0
Department of Commerce	5,476.2	0.0	3,944.4	0.0	1,405.8	0.0	126.0	0.0	0.0
Department of Defense, research	595,172.9	308,632.1	210,326.0	0.0	66,707.7	0.0	8,636.3	0.0	870.8
Department of Defense, total development[b]	1,857,414.9	515,165.0	1,291,532.6	0.0	42,691.3	0.0	8,025.9	0.0	0.0
Department of Energy	30,305.5	28.1	2,112.0	0.0	15,704.6	0.0	12,460.8	0.0	0.0
Department of Health and Human Services	719,552.2	10,745.4	39,904.0	0.0	529,324.6	0.0	139,431.5	0.0	146.7
Department of Homeland Security	6,041.7	6,038.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	3,835.3	3,273.2	0.0	0.0	274.2	0.0	5.0	0.0	282.9
Department of Transportation	10,112.4	3,032.0	2,706.9	0.0	1,671.1	0.0	1,327.0	0.0	1,375.3
Environmental Protection Agency	36,756.8	0.0	35,315.2	0.0	1,441.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	159,853.8	100,439.0	46,045.4	0.0	8,416.9	0.0	4,952.4	0.0	0.0
National Science Foundation	103,546.9	0.0	5,673.0	0.0	96,869.7	0.0	499.4	0.0	504.8
Oklahoma	462,535.7	186,373.7	143,491.7	0.0	103,137.4	0.0	28,160.0	0.0	1,372.9
Department of Agriculture	22,251.7	13,296.4	0.0	0.0	8,717.7	0.0	32.0	0.0	205.5
Department of Commerce	15,126.3	11,850.0	0.0	0.0	3,194.3	0.0	82.0	0.0	0.0
Department of Defense, research	58,165.4	25,615.4	25,815.7	0.0	5,799.2	0.0	935.1	0.0	0.0
Department of Defense, total development[b]	217,123.7	108,506.5	107,128.3	0.0	466.4	0.0	1,022.5	0.0	0.0
Department of Energy	7,658.9	2,547.2	23.4	0.0	4,329.0	0.0	759.3	0.0	0.0
Department of Health and Human Services	83,610.6	0.0	4,328.6	0.0	54,367.4	0.0	24,752.1	0.0	162.5
Department of Homeland Security	1,421.1	0.0	1,421.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,785.7	2,982.7	0.0	0.0	1,778.0	0.0	0.0	0.0	25.0
Department of Transportation	17,127.4	12,984.4	3,005.3	0.0	158.4	0.0	0.0	0.0	979.3
Environmental Protection Agency	9,186.0	8,229.5	619.4	0.0	337.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,079.1	13.2	704.9	0.0	1,340.4	0.0	20.0	0.0	0.6
National Science Foundation	23,999.8	348.3	444.9	0.0	22,649.5	0.0	557.0	0.0	0.0
Oregon	711,080.7	92,764.7	207,686.5	0.0	371,877.2	0.0	34,687.4	0.0	4,064.9
Department of Agriculture	61,123.5	44,571.7	325.2	0.0	15,730.2	0.0	285.3	0.0	211.1
Department of Commerce	9,178.6	3,525.0	576.5	0.0	4,965.2	0.0	19.0	0.0	93.0
Department of Defense, research	22,295.7	361.6	8,567.2	0.0	13,366.9	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development[b]	162,200.2	396.1	157,339.1	0.0	4,465.0	0.0	0.0	0.0	0.0
Department of Energy	23,609.9	9,468.1	4,402.9	0.0	8,167.1	0.0	1,471.4	0.0	100.5
Department of Health and Human Services	310,929.5	0.0	28,023.9	0.0	250,720.0	0.0	30,759.8	0.0	1,425.8
Department of Homeland Security	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	23,674.9	18,367.7	16.0	0.0	3,636.7	0.0	1,072.0	0.0	582.5
Department of Transportation	1,988.9	0.0	12.2	0.0	324.6	0.0	0.0	0.0	1,652.0
Environmental Protection Agency	17,127.1	15,571.7	1,442.1	0.0	113.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,013.0	502.8	4,578.4	0.0	3,917.3	0.0	14.5	0.0	0.0
National Science Foundation	69,938.9	0.0	2,402.3	0.0	66,471.0	0.0	1,065.6	0.0	0.0
Pennsylvania	4,512,982.4	220,076.9	2,203,328.4	0.0	1,714,482.3	36,154.7	286,121.7	0.0	52,818.4
Department of Agriculture	69,864.5	54,308.3	25.0	0.0	15,229.3	0.0	295.9	0.0	6.0
Department of Commerce	4,570.5	0.0	1,818.8	0.0	2,558.7	0.0	193.0	0.0	0.0
Department of Defense, research	197,706.6	2,882.7	53,599.7	0.0	135,663.2	1,792.7	3,768.4	0.0	0.0
Department of Defense, total development[b]	1,914,371.5	64,287.0	1,621,804.6	0.0	119,406.0	33,981.7	24,291.2	0.0	50,600.9
Department of Energy	560,602.3	65,064.2	458,438.3	0.0	35,974.5	0.0	1,125.4	0.0	0.0
Department of Health and Human Services	1,504,557.7	22,730.3	37,858.0	0.0	1,193,808.8	380.3	249,629.3	0.0	151.0
Department of Homeland Security	2,158.8	499.2	1,340.7	0.0	319.0	0.0	0.0	0.0	0.0
Department of the Interior	9,039.9	7,482.5	0.0	0.0	848.6	0.0	452.0	0.0	256.8
Department of Transportation	15,967.6	2,518.6	10,864.7	0.0	780.6	0.0	0.0	0.0	1,803.7
Environmental Protection Agency	4,304.1	0.0	1,069.9	0.0	3,234.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	25,590.6	304.1	13,079.0	0.0	12,205.6	0.0	2.0	0.0	0.0
National Science Foundation	204,248.2	0.0	3,429.7	0.0	194,453.9	0.0	6,364.5	0.0	0.0
Puerto Rico	97,350.8	8,685.6	9,615.3	0.0	69,000.2	8,967.1	627.7	0.0	454.9
Department of Agriculture	10,660.7	5,686.2	0.0	0.0	4,629.4	0.0	345.1	0.0	0.0
Department of Commerce	367.6	0.0	0.0	0.0	330.6	0.0	0.0	0.0	37.0
Department of Defense, research	4,308.0	0.0	0.0	0.0	4,308.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	11,667.9	2,387.5	8,988.8	0.0	15.0	0.0	276.5	0.0	0.0
Department of Energy	1,051.1	0.0	0.0	0.0	1,045.0	0.0	6.1	0.0	0.0
Department of Health and Human Services	50,810.1	0.0	566.6	0.0	49,825.6	0.0	0.0	0.0	417.9
Department of Homeland Security	1,027.0	0.0	0.0	0.0	1,027.0	0.0	0.0	0.0	0.0
Department of the Interior	704.2	611.9	0.0	0.0	92.3	0.0	0.0	0.0	0.0
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	66.0	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
National Science Foundation	16,669.3	0.0	60.0	0.0	7,642.3	8,967.1	0.0	0.0	0.0
Rhode Island	610,133.1	323,489.3	72,861.4	0.0	142,088.9	0.0	71,108.1	0.0	585.5
Department of Agriculture	3,160.3	62.4	0.0	0.0	3,047.8	0.0	50.0	0.0	0.0
Department of Commerce	1,870.2	0.0	0.0	0.0	1,865.2	0.0	5.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	44,614.3	24,436.5	6,345.6	0.0	13,716.5	0.0	115.7	0.0	0.0
Department of Defense, total development[b]	347,582.0	285,036.5	62,545.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	6,822.7	0.0	0.0	0.0	6,640.8	0.0	181.9	0.0	0.0
Department of Health and Human Services	155,424.4	0.0	2,457.2	0.0	82,469.5	0.0	69,988.3	0.0	509.5
Department of Homeland Security	1,095.8	30.0	7.5	0.0	1,058.4	0.0	0.0	0.0	0.0
Department of the Interior	1,135.7	870.3	0.0	0.0	260.4	0.0	5.0	0.0	0.0
Department of Transportation	111.6	0.0	35.6	0.0	0.0	0.0	0.0	0.0	76.0
Environmental Protection Agency	13,982.0	13,030.8	951.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,964.2	22.8	338.8	0.0	3,602.6	0.0	0.0	0.0	0.0
National Science Foundation	30,369.9	0.0	180.0	0.0	29,427.7	0.0	762.2	0.0	0.0
South Carolina	496,684.2	157,078.9	78,440.5	35,466.1	187,796.2	0.0	33,207.2	0.0	4,695.4
Department of Agriculture	23,632.8	12,589.3	0.0	0.0	10,425.5	0.0	400.0	0.0	218.0
Department of Commerce	8,761.8	7,221.1	56.3	0.0	759.3	0.0	29.0	0.0	696.0
Department of Defense, research	24,807.5	3,076.2	9,461.1	0.0	12,079.9	0.0	190.3	0.0	0.0
Department of Defense, total development[b]	193,022.9	111,135.4	57,876.4	437.4	9,234.9	0.0	14,117.6	0.0	221.0
Department of Energy	39,629.7	0.0	0.0	35,028.7	4,526.3	0.0	74.7	0.0	0.0
Department of Health and Human Services	146,803.4	0.0	9,163.4	0.0	134,221.3	0.0	1,616.9	0.0	1,801.9
Department of Homeland Security	14,305.4	13,977.5	327.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,970.8	3,877.4	0.0	0.0	466.8	0.0	84.9	0.0	541.6
Department of Transportation	1,228.6	0.0	11.8	0.0	0.0	0.0	0.0	0.0	1,216.8
Environmental Protection Agency	2,492.4	0.0	524.4	0.0	1,968.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,055.8	129.4	206.4	0.0	720.0	0.0	0.0	0.0	0.0
National Science Foundation	35,973.2	5,072.6	812.7	0.0	13,394.1	0.0	16,693.8	0.0	0.0
South Dakota	61,087.0	9,277.4	4,200.9	0.0	35,946.0	0.0	10,273.4	0.0	1,389.3
Department of Agriculture	9,099.6	4,283.5	0.0	0.0	4,724.1	0.0	0.0	0.0	92.0
Department of Commerce	23.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0
Department of Defense, research	2,632.4	0.0	47.0	0.0	2,585.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	3,116.2	48.4	3,067.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,190.2	0.0	0.0	0.0	1,190.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	23,304.2	0.0	395.4	0.0	12,635.4	0.0	10,273.4	0.0	0.0
Department of the Interior	5,487.0	4,489.0	0.0	0.0	998.0	0.0	0.0	0.0	0.0
Department of Transportation	1,297.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,297.3
National Aeronautics and Space Administration	2,078.5	456.4	2.8	0.0	1,619.2	0.0	0.0	0.0	0.0
National Science Foundation	12,858.5	0.0	687.9	0.0	12,170.6	0.0	0.0	0.0	0.0
Tennessee	1,898,594.7	108,446.9	274,819.8	0.0	526,404.9	0.0	100,804.6	776,145.9	111,972.5
Department of Agriculture	34,043.5	14,597.7	0.0	0.0	19,132.6	0.0	0.0	0.0	313.2
Department of Commerce	2,055.9	1,026.0	1,005.8	0.0	24.1	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	36,827.7	8,088.7	5,309.8	0.0	18,781.3	0.0	608.6	4,039.3	0.0
Department of Defense, total development[b]	207,120.8	41,530.3	45,175.0	0.0	10,250.4	0.0	0.0	1,880.5	108,284.6
Department of Energy	813,146.8	15,800.9	18,142.9	0.0	10,136.6	0.0	19,864.8	749,201.7	0.0
Department of Health and Human Services	487,866.0	919.1	4,464.3	0.0	406,903.6	0.0	73,909.1	951.6	718.3
Department of Homeland Security	9,677.4	0.0	0.7	0.0	800.4	0.0	0.0	8,876.3	0.0
Department of the Interior	11,498.6	9,200.8	0.0	0.0	2,029.7	0.0	34.0	0.0	234.1
Department of Transportation	27,871.3	6,332.2	3,717.1	0.0	555.9	0.0	3,658.3	11,185.5	2,422.4
Environmental Protection Agency	1,008.0	0.0	970.2	0.0	37.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	210,617.4	10,951.2	195,264.0	0.0	1,661.3	0.0	2,729.8	11.1	0.0
National Science Foundation	56,861.2	0.0	770.0	0.0	56,091.3	0.0	0.0	0.0	0.0
Texas	5,475,367.0	462,451.3	3,410,059.9	0.0	1,433,487.3	0.0	164,105.0	572.0	4,691.5
Department of Agriculture	101,639.8	57,940.8	0.0	0.0	40,451.0	0.0	2,000.0	0.0	1,248.0
Department of Commerce	8,219.1	628.0	3,434.9	0.0	4,041.3	0.0	84.0	0.0	31.0
Department of Defense, research	182,938.1	33,745.9	57,368.9	0.0	83,090.4	0.0	8,732.8	0.0	0.0
Department of Defense, total development[b]	3,411,487.4	230,323.3	3,129,791.2	0.0	42,325.6	0.0	8,510.7	0.0	536.6
Department of Energy	93,387.9	128.2	20,409.3	0.0	46,191.3	0.0	26,560.5	0.0	98.6
Department of Health and Human Services	1,091,443.0	67.8	29,761.1	0.0	1,006,786.9	0.0	52,953.4	223.1	1,650.7
Department of Homeland Security	23,199.5	1,854.5	12,552.2	0.0	8,538.5	0.0	0.0	254.4	0.0
Department of the Interior	25,396.7	15,454.4	6,938.9	0.0	2,829.6	0.0	173.7	0.0	0.0
Department of Transportation	5,961.5	275.0	1,830.1	0.0	1,243.9	0.0	2,506.9	0.0	105.6
Environmental Protection Agency	4,535.6	0.0	1,011.9	0.0	3,523.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	342,287.3	122,033.4	140,612.1	0.0	18,062.6	0.0	61,059.0	94.5	425.8
National Science Foundation	184,871.1	0.0	6,349.4	0.0	176,402.6	0.0	1,524.0	0.0	595.1
Utah	1,756,403.3	193,126.7	1,286,766.7	0.0	258,565.2	0.0	7,790.0	0.0	10,154.7
Department of Agriculture	32,914.9	22,931.6	0.0	0.0	9,903.3	0.0	0.0	0.0	80.0
Department of Commerce	1,278.3	0.0	0.0	0.0	1,278.3	0.0	0.0	0.0	0.0
Department of Defense, research	20,099.3	1,143.6	9,122.6	0.0	9,833.1	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	1,033,944.3	157,102.8	852,121.8	0.0	10,088.5	0.0	7,302.6	0.0	7,328.7
Department of Energy	16,088.9	327.5	350.0	0.0	14,970.2	0.0	0.0	0.0	441.2
Department of Health and Human Services	183,343.8	0.0	11,095.0	0.0	170,851.2	0.0	317.6	0.0	1,080.0
Department of Homeland Security	418.4	0.0	0.1	0.0	418.3	0.0	0.0	0.0	0.0
Department of the Interior	14,513.5	11,621.2	351.8	0.0	2,036.3	0.0	0.0	0.0	504.2
Department of Transportation	1,397.5	0.0	438.9	0.0	237.8	0.0	0.0	0.0	720.7
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	413,194.5	0.0	411,369.0	0.0	1,825.6	0.0	0.0	0.0	0.0
National Science Foundation	39,191.1	0.0	1,917.6	0.0	37,103.6	0.0	169.8	0.0	0.0

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State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Vermont	124,444.4	5,532.7	41,600.0	0.0	75,421.0	0.0	159.3	0.0	1,731.4
Department of Agriculture	13,929.8	3,510.4	0.0	0.0	10,419.4	0.0	0.0	0.0	0.0
Department of Commerce	62.6	0.0	0.0	0.0	6.6	0.0	0.0	0.0	56.0
Department of Defense, research	8,995.9	0.0	7,859.3	0.0	1,136.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	31,217.6	143.0	30,533.2	0.0	0.0	0.0	0.0	0.0	541.4
Department of Energy	374.6	0.0	0.0	0.0	374.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	53,173.6	0.0	2,444.0	0.0	50,407.8	0.0	159.3	0.0	162.6
Department of the Interior	2,291.2	1,879.4	0.0	0.0	330.4	0.0	0.0	0.0	81.4
Department of Transportation	894.9	0.0	4.9	0.0	0.0	0.0	0.0	0.0	890.0
Environmental Protection Agency	201.7	0.0	201.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	351.0	0.0	351.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	12,951.6	0.0	205.9	0.0	12,745.7	0.0	0.0	0.0	0.0
Virginia	8,292,643.9	2,738,037.4	4,475,062.9	0.0	477,672.6	163,633.5	138,917.7	291,083.3	8,236.5
Department of Agriculture	17,902.1	998.7	431.4	0.0	14,581.9	0.0	1,623.6	0.0	266.5
Department of Commerce	6,097.6	628.0	1,863.4	0.0	3,433.2	0.0	173.0	0.0	0.0
Department of Defense, research	719,166.6	183,256.8	437,513.0	0.0	61,734.4	3,608.9	23,591.4	9,462.0	0.0
Department of Defense, total development[b]	6,085,953.7	2,346,908.3	3,450,856.5	0.0	31,357.6	64.6	35,504.7	221,262.0	0.0
Department of Energy	124,739.4	5,358.8	5,186.5	0.0	17,978.2	92,314.2	3,901.8	0.0	0.0
Department of Health and Human Services	365,606.4	147.9	77,085.8	0.0	240,348.0	0.0	47,889.5	0.0	135.2
Department of Homeland Security	62,526.7	18,117.2	33,792.5	0.0	499.2	0.0	86.9	10,030.9	0.0
Department of the Interior	19,118.9	13,775.0	2,064.9	0.0	2,572.9	0.0	178.0	0.0	528.1
Department of Transportation	139,525.5	13,663.0	57,907.7	0.0	9,800.7	0.0	6,103.3	44,747.3	7,303.4
Environmental Protection Agency	34,668.6	793.9	31,149.4	0.0	2,725.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	423,576.1	149,890.6	252,269.9	0.0	8,157.4	0.0	13,254.9	0.0	3.3
National Science Foundation	293,762.3	4,499.1	124,941.8	0.0	84,484.0	67,645.8	6,610.7	5,581.0	0.0
Washington	4,931,381.2	268,038.7	3,080,802.7	0.0	772,766.5	0.0	475,986.8	273,630.5	60,156.1
Department of Agriculture	78,143.4	34,156.1	110.0	0.0	43,125.4	0.0	714.0	0.0	38.0
Department of Commerce	43,827.1	36,217.3	3.1	0.0	7,025.7	0.0	319.0	0.0	262.0
Department of Defense, research	108,329.3	1,944.2	24,925.0	0.0	76,270.5	0.0	4,351.6	838.0	0.0
Department of Defense, total development[b]	3,233,472.8	172,068.2	2,981,761.3	0.0	18,053.2	0.0	3,275.1	4,152.0	54,163.0
Department of Energy	295,952.5	1,659.2	27,018.6	0.0	23,810.2	0.0	11,612.8	231,803.1	48.6
Department of Health and Human Services	982,827.6	3,486.5	24,030.7	0.0	488,497.8	0.0	450,374.7	14,246.9	2,190.9
Department of Homeland Security	21,904.5	0.0	3.9	0.0	39.9	0.0	0.0	21,860.6	0.0
Department of the Interior	19,617.6	15,670.7	206.7	0.0	2,927.5	0.0	121.5	0.0	691.2
Department of Transportation	10,896.3	2,518.6	4,739.1	0.0	876.3	0.0	0.0	0.0	2,762.3
Environmental Protection Agency	11,422.4	0.0	734.2	0.0	10,688.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	21,519.5	292.8	10,736.9	0.0	9,760.0	0.0	0.0	729.8	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Science Foundation	103,468.2	25.1	6,533.1	0.0	91,691.8	0.0	5,218.2	0.0	0.0
West Virginia	239,806.5	119,064.5	64,570.4	0.0	38,000.0	0.0	12,098.8	0.0	6,072.8
Department of Agriculture	36,512.0	27,866.6	9.2	0.0	7,459.7	0.0	1,176.4	0.0	0.0
Department of Defense, research	12,187.9	0.0	6,962.6	0.0	5,085.3	0.0	140.0	0.0	0.0
Department of Defense, total development[b]	38,272.2	8,222.0	27,305.1	0.0	418.1	0.0	2,327.0	0.0	0.0
Department of Energy	88,457.4	59,858.2	26,006.2	0.0	1,055.0	0.0	1,252.3	0.0	285.6
Department of Health and Human Services	37,891.1	13,950.7	796.8	0.0	23,008.3	0.0	0.0	0.0	135.3
Department of Homeland Security	921.7	920.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	9,922.6	8,246.5	0.0	0.0	503.6	0.0	1,133.3	0.0	39.2
Department of Transportation	1,679.7	0.0	166.8	0.0	0.0	0.0	0.0	0.0	1,513.0
Environmental Protection Agency	2,537.1	0.0	2,537.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	664.3	0.0	636.1	0.0	20.2	0.0	8.0	0.0	0.0
National Science Foundation	10,760.5	0.0	149.3	0.0	449.7	0.0	6,061.8	0.0	4,099.7
Wisconsin	742,243.1	83,298.8	62,344.5	0.0	576,300.8	0.0	18,458.1	0.0	1,840.9
Department of Agriculture	60,208.1	43,637.7	40.6	0.0	16,355.3	0.0	174.5	0.0	0.0
Department of Commerce	3,785.0	0.0	18.2	0.0	3,716.8	0.0	50.0	0.0	0.0
Department of Defense, research	34,744.2	701.8	11,002.2	0.0	23,040.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	44,507.0	23,076.6	19,531.4	0.0	1,899.0	0.0	0.0	0.0	0.0
Department of Energy	53,569.0	17.5	779.3	0.0	52,772.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	410,800.3	0.0	20,230.4	0.0	372,194.1	0.0	17,779.6	0.0	596.2
Department of Homeland Security	302.4	0.0	2.9	0.0	0.0	0.0	299.5	0.0	0.0
Department of the Interior	16,199.1	13,307.0	4.2	0.0	2,229.9	0.0	154.5	0.0	503.6
Department of Transportation	8,039.7	2,518.6	3,756.8	0.0	1,165.1	0.0	0.0	0.0	599.1
Environmental Protection Agency	4,548.9	0.0	1,928.9	0.0	2,620.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,871.5	39.6	908.4	0.0	7,923.5	0.0	0.0	0.0	0.0
National Science Foundation	96,668.1	0.0	4,141.3	0.0	92,384.8	0.0	0.0	0.0	142.0
Wyoming	37,192.8	6,798.5	1,384.6	0.0	26,163.2	0.0	1,675.5	0.0	1,171.0
Department of Agriculture	5,353.7	2,368.4	0.0	0.0	2,984.2	0.0	1.2	0.0	0.0
Department of Defense, research	540.9	0.0	0.0	0.0	540.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	484.4	0.0	454.4	0.0	0.0	0.0	0.0	0.0	30.0
Department of Energy	3,670.4	0.0	240.1	0.0	1,860.8	0.0	1,569.5	0.0	0.0
Department of Health and Human Services	6,460.8	0.0	0.0	0.0	6,189.0	0.0	43.9	0.0	228.0
Department of the Interior	5,622.7	4,430.1	0.0	0.0	943.7	0.0	60.9	0.0	187.9
Department of Transportation	725.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	725.1
National Aeronautics and Space Administration	372.0	0.0	244.6	0.0	127.3	0.0	0.0	0.0	0.0
National Science Foundation	13,962.9	0.0	445.5	0.0	13,517.4	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011
(Dollars in thousands)

State or location and agency	Total	Intramural[a]	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Offices abroad[c]	35,653.2	34,796.6	836.6	0.0	20.0	0.0	0.0	0.0	0.0
Department of Defense, research	24,522.9	24,337.1	165.9	0.0	20.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	11,130.2	10,459.5	670.7	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[d]	4,545,110.2	4,472,779.7	1,174.9	0.0	13,548.0	0.0	40.0	0.0	57,567.5
Department of Agriculture	5,523.3	288.4	0.0	0.0	5,234.9	0.0	0.0	0.0	0.0
Department of Commerce	454.0	394.0	20.0	0.0	0.0	0.0	40.0	0.0	0.0
Department of Defense, research	27,342.4	27,061.1	60.0	0.0	221.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	4,496,098.9	4,437,495.3	1,085.0	0.0	0.0	0.0	0.0	0.0	57,518.6
Department of Energy	110.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	11,993.6	7,540.9	0.0	0.0	4,452.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	3,578.1	0.0	0.0	0.0	3,529.2	0.0	0.0	0.0	48.9

* = amount greater than $0 but less than $50.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). Geographic data for these categories are not reported; therefore, this table shows only total development.

[c] Includes R&D performed or administered in foreign countries by the U.S. government.

[d] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2011. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 105. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2011

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	4,100,450.4	568,451.0	241,718.9	170,340.6	734,619.8	10,534.9	20,371.0	4,700.0	79,216.5	1,848,048.1	386,904.6	35,545.0
Alabama	93,168.4	452.8	0.0	435.1	0.0	0.0	24.1	0.0	0.0	89,930.4	2,325.9	0.0
Alaska	6,260.7	0.0	4,801.9	0.0	0.0	0.0	0.0	0.0	0.0	394.5	1,064.3	0.0
Arizona	30,317.3	20,671.1	0.0	75.9	0.0	0.0	11.5	0.0	0.0	60.8	9,497.9	0.0
Arkansas	6,368.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	6,228.2	1.7	138.3	0.0
California	997,446.9	36,725.0	0.0	16,170.8	83,193.0	484.4	3,292.0	0.0	49.0	790,074.7	65,909.6	1,548.5
Colorado	140,621.2	1,096.1	45,910.9	16.8	41,251.0	669.4	2,720.1	0.0	499.6	1,377.7	42,627.0	4,452.5
Connecticut	93,681.4	1,308.4	0.0	104.5	0.0	0.0	3.5	0.0	0.0	91,542.0	722.8	0.0
Delaware	368.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.5	315.0	0.0
District of Columbia	236,905.8	132,176.9	14,851.2	180.0	0.0	50.0	219.2	761.2	0.0	21,202.5	67,317.1	147.8
Florida	90,429.4	156.7	5,160.0	3,074.5	0.0	0.0	474.7	201.7	500.0	77,207.7	3,276.3	377.8
Georgia	45,412.6	43,830.7	0.0	776.4	0.0	102.0	3.4	101.6	0.0	339.6	259.0	0.0
Hawaii	23,320.9	1,597.5	18,741.9	0.0	0.0	0.0	0.0	0.0	0.0	143.9	2,696.3	141.4
Idaho	30,931.0	0.0	0.0	0.0	29,642.0	0.0	1.5	0.0	0.0	24.4	1,263.2	0.0
Illinois	115,412.7	4,532.5	0.0	343.3	101,972.1	0.0	123.8	0.0	0.0	3,461.1	4,238.9	741.0
Indiana	6,639.1	0.0	0.0	390.4	0.0	0.0	23.3	0.0	0.0	864.7	5,360.7	0.0
Iowa	7,068.1	0.0	0.0	0.0	3,876.6	0.0	449.4	0.0	0.0	145.4	903.1	1,693.6
Kansas	4,429.9	18.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.8	507.5	3,901.9
Kentucky	4,617.4	1,897.0	0.0	197.7	0.0	0.0	13.4	0.0	484.5	25.0	1,814.7	185.1
Louisiana	14,888.9	0.0	0.0	0.0	0.0	84.7	0.0	0.0	2,603.4	3,546.0	1,050.3	7,604.5
Maine	1,472.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	500.0	0.0	971.5	0.0
Maryland	404,935.6	59,645.7	61,854.9	18,452.5	0.0	6,875.9	67.6	0.0	61,471.4	193,164.0	1,687.7	1,716.0
Massachusetts	30,759.8	3,673.0	9,025.4	802.6	0.0	37.0	2,333.1	0.0	982.9	3,200.8	10,705.0	0.0
Michigan	3,500.1	49.8	0.0	20.8	0.0	0.0	3.6	28.5	500.0	61.3	2,836.3	0.0
Minnesota	24,000.3	1,029.4	0.0	21,793.5	0.0	0.0	6.6	274.6	0.0	77.8	818.4	0.0
Mississippi	21,958.8	0.0	10,496.5	31.7	0.0	0.0	0.0	0.0	0.0	9,942.5	924.3	563.9
Missouri	4,193.0	1,889.4	0.0	0.0	485.7	0.0	60.8	0.0	500.0	821.6	435.6	0.0
Montana	445.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.7	295.4	0.0
Nebraska	781.1	480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	266.5	23.6
Nevada	4,139.5	4.0	0.0	0.0	2,426.2	159.1	5.5	263.4	0.0	603.1	678.2	0.0
New Hampshire	1,584.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	972.0	612.2	0.0
New Jersey	40,013.6	1,325.9	10,102.0	18.0	17,338.0	0.0	6,444.3	0.0	0.0	325.0	4,460.4	0.0
New Mexico	96,806.5	10,497.0	0.0	0.0	83,956.4	1,457.1	0.0	0.0	0.0	491.5	404.5	0.0
New York	210,510.7	6,788.3	0.0	184.1	178,531.5	0.0	279.8	0.0	492.0	1,157.1	23,077.9	0.0
North Carolina	8,810.4	1,235.0	0.0	13.4	200.0	0.0	2.2	2,375.8	0.0	77.9	1,856.1	3,050.0
North Dakota	358.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	358.9	0.0
Ohio	55,235.0	11,357.3	0.0	26,736.8	0.0	115.4	29.9	0.0	0.0	14,744.9	2,250.6	0.0
Oklahoma	13,060.3	0.0	7,984.0	0.0	0.0	0.0	1,729.2	151.6	0.0	393.0	2,802.4	0.0
Oregon	18,089.3	0.0	7,746.7	6.9	981.6	0.0	2.7	286.9	1,990.1	242.7	551.9	6,279.8
Pennsylvania	15,165.6	2,152.7	0.0	282.6	3,676.2	0.0	295.4	0.0	1,000.0	562.6	5,576.6	1,619.4

TABLE 105. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2011

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Puerto Rico	1,539.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,374.9	164.7
Rhode Island	2,632.8	0.0	0.0	1,675.0	0.0	0.0	1.1	240.1	0.0	250.0	466.6	0.0
South Carolina	19,028.9	3,639.4	9,657.6	227.6	1.5	0.0	0.0	0.0	0.0	18.8	5,484.0	0.0
South Dakota	843.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	843.7	0.0
Tennessee	315,262.0	1,825.1	6,695.0	77,421.0	109,590.6	0.0	10.0	0.0	0.0	117,096.3	2,624.0	0.0
Texas	428,660.4	9,476.5	0.0	191.4	374.0	500.0	428.9	0.0	0.0	383,092.4	34,597.2	0.0
Utah	1,498.2	10.7	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	1,478.7	0.0
Vermont	1,412.4	0.0	0.0	0.0	0.0	0.0	282.2	0.0	0.0	100.5	1,029.7	0.0
Virginia	344,738.4	201,712.3	0.0	610.9	44,944.0	0.0	988.5	14.6	0.0	38,818.5	57,649.6	0.0
Washington	48,769.1	3,795.7	28,691.0	22.4	15,142.7	0.0	27.2	0.0	0.0	249.8	840.3	0.0
West Virginia	21,446.6	3,388.9	0.0	84.0	17,036.8	0.0	0.0	0.0	0.0	904.5	0.0	32.5
Wisconsin	9,993.2	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1,415.5	134.5	7,141.3	1,301.1
Wyoming	516.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	516.1	0.0
Offices abroad[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] Includes R&D plant performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D plant obligations in FY 2011.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2011–13
(Dollars in thousands)

Agency	Total intramural R&D (2011)	Personnel costs (2011)		Preliminary					
				Total intramural R&D (2012)	Personnel costs (2012)		Total intramural R&D (2013)	Personnel costs (2013)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	35,144,677.8	9,030,018.5	25.7	37,664,930.7	9,222,136.2	24.5	37,301,035.3	9,343,884.1	25.0
Departments									
Department of Agriculture	1,517,076.5	1,057,199.5	69.7	1,519,710.7	1,040,368.9	68.5	1,471,232.8	1,036,801.1	70.5
Agricultural Marketing Service	4,286.5	3,172.0	74.0	4,286.5	3,172.0	74.0	5,286.5	3,912.0	74.0
Agricultural Research Service	1,043,245.9	737,985.0	70.7	1,031,045.1	721,548.0	70.0	1,027,199.9	724,254.0	70.5
Animal and Plant Health Inspection Service	22,451.3	10,776.6	48.0	30,522.9	14,651.0	48.0	28,967.3	13,904.3	48.0
Economic Research Service	71,639.4	52,892.0	73.8	69,044.0	51,136.0	74.1	68,931.0	51,328.0	74.5
Foreign Agricultural Service	232.9	232.9	100.0	232.9	232.9	100.0	232.9	232.9	100.0
Forest Service	306,637.0	213,000.0	69.5	319,160.6	210,000.0	65.8	274,160.6	203,000.0	74.0
Grain Inspection, Packers, and Stockyards Administration	6,690.6	5,017.9	75.0	6,290.6	4,717.9	75.0	6,890.6	5,167.9	75.0
National Agricultural Statistics Service	6,241.9	5,208.0	83.4	6,760.0	5,206.0	77.0	6,760.0	5,206.0	77.0
National Institute of Food and Agriculture	54,651.0	27,915.0	51.1	51,368.0	28,705.0	55.9	51,804.0	28,796.0	55.6
Rural Business-Cooperative Service	1,000.0	1,000.0	100.0	1,000.0	1,000.0	100.0	1,000.0	1,000.0	100.0
Department of Commerce	815,762.1	446,510.5	54.7	865,971.1	511,867.5	59.1	1,063,512.5	611,878.5	57.5
Economic Development Administration	25.0	25.0	100.0	199.2	199.2	100.0	0.0	0.0	-
National Institute of Standards and Technology	389,912.8	243,378.2	62.4	426,466.3	254,705.5	59.7	489,108.0	269,296.8	55.1
National Oceanic and Atmospheric Administration	358,557.9	168,295.0	46.9	330,279.9	190,012.2	57.5	384,806.6	235,690.1	61.2
National Telecommunications and Information Administration	7,808.8	7,808.8	100.0	7,494.7	7,494.7	100.0	6,682.2	6,682.2	100.0
U.S. Census Bureau	59,457.7	27,003.5	45.4	101,531.0	59,455.9	58.6	182,915.7	100,209.4	54.8
Department of Defense	23,074,284.2	3,300,629.2	14.3	25,239,340.6	3,240,441.3	12.8	24,367,147.2	3,274,525.2	13.4
Defense Advanced Research Projects Agency	221,521.8	162,214.9	73.2	225,142.1	172,128.1	76.5	219,383.5	169,970.0	77.5
Department of the Air Force	3,837,827.4	698,625.7	18.2	5,211,014.5	803,802.0	15.4	4,457,663.0	811,950.3	18.2
Department of the Army	4,217,171.4	1,628,059.7	38.6	4,160,008.0	1,608,413.1	38.7	4,473,256.7	1,532,099.4	34.3
Department of the Navy	5,524,414.2	143,228.7	2.6	6,016,337.4	111,428.9	1.9	5,670,669.0	234,976.1	4.1
Other defense agencies[a]	9,273,349.3	668,500.2	7.2	9,626,838.5	544,669.2	5.7	9,546,174.9	525,529.4	5.5
Department of Education	16,925.0	11,576.9	68.4	17,761.5	12,186.9	68.6	17,712.6	11,786.0	66.5
Department of Energy	696,725.3	266,806.7	38.3	1,045,128.1	433,586.6	41.5	1,310,058.5	400,336.5	30.6
Advanced Research Projects Agency—Energy	18,000.0	5,800.0	32.2	22,000.0	6,650.0	30.2	25,000.0	7,875.0	31.5
Bonneville Power Administration	2,212.2	1,569.4	70.9	2,610.4	2,063.0	79.0	2,607.9	1,330.5	51.0
Electricity Delivery and Energy Reliability	6,712.6	0.2	**	3,296.9	0.2	**	5,936.0	0.2	**
Energy Efficiency and Renewable Energy	337,288.8	48,865.2	14.5	385,308.7	55,822.0	14.5	543,884.5	81,796.1	15.0
Environmental Management	2.0	2.0	100.0	2.0	2.0	100.0	2.0	2.0	100.0
Fossil Energy	127,357.9	70,220.6	55.1	91,964.9	50,706.2	55.1	85,623.4	47,209.7	55.1
National Nuclear Security Administration	147,327.3	139,342.3	94.6	333,250.3	317,337.3	95.2	277,942.6	261,117.0	93.9
Defense Programs	99,422.3	99,422.3	100.0	277,337.3	277,337.3	100.0	217,905.0	217,905.0	100.0
Naval Reactors	42,130.1	39,920.0	94.8	45,968.5	40,000.0	87.0	50,093.1	43,212.0	86.3
Nonproliferation and Verification	5,775.0	*	**	9,944.5	*	**	9,944.5	*	**
Nuclear Energy	6,000.0	2.0	**	1,400.0	1.0	0.1	1,500.0	1.0	0.1

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2011–13
(Dollars in thousands)

Agency	Total intramural R&D (2011)	Personnel costs (2011)		Preliminary					
				Total intramural R&D (2012)	Personnel costs (2012)		Total intramural R&D (2013)	Personnel costs (2013)	
		Amount	% of total		Amount	% of total		Amount	% of total
Office of Science	51,824.4	1,005.0	1.9	205,294.9	1,005.0	0.5	367,562.0	1,005.0	0.3
Department of Health and Human Services	5,692,643.6	2,128,049.6	37.4	5,602,101.5	2,173,420.4	38.8	5,581,957.8	2,138,909.1	38.3
Administration for Children and Families	274.0	274.0	100.0	279.8	279.8	100.0	285.6	285.6	100.0
Agency for Healthcare Research and Quality	85,265.4	54,468.3	63.9	84,897.6	46,509.0	54.8	76,916.1	48,759.0	63.4
Agency for Toxic Substances and Disease Registry	2,287.9	1,254.0	54.8	3,131.4	2,335.2	74.6	3,131.4	2,335.2	74.6
Ctrs. for Disease Control and Prevention	134,035.2	82,203.7	61.3	134,453.8	83,562.1	62.1	83,034.6	45,879.5	55.3
Ctrs. for Medicare and Medicaid Services	40.0	10.0	25.0	40.0	10.0	25.0	40.0	10.0	25.0
Food and Drug Administration	211,381.8	715.2	0.3	204,343.2	691.4	0.3	242,788.4	821.5	0.3
Health Resources and Services Administration	3,604.5	3,550.8	98.5	3,606.2	3,552.4	98.5	3,606.2	3,552.4	98.5
National Institutes of Health	5,252,802.5	1,985,561.0	37.8	5,166,449.6	2,036,467.0	39.4	5,167,455.5	2,037,253.0	39.4
Office of the Secretary	2,952.2	12.5	0.4	4,900.0	13.5	0.3	4,700.0	12.8	0.3
Office of the Assistant Secretary, Planning and Evaluation	2,952.2	12.5	0.4	4,900.0	13.5	0.3	4,700.0	12.8	0.3
Department of Homeland Security	187,781.5	37,329.3	19.9	180,646.2	33,096.2	18.3	238,637.7	47,217.5	19.8
Science and Technology Directorate	186,055.6	37,211.1	20.0	162,146.2	32,429.2	20.0	233,537.7	46,707.5	20.0
U.S. Coast Guard	1,725.9	118.1	6.8	18,500.0	667.0	3.6	5,100.0	510.0	10.0
Department of Housing and Urban Development	42,502.2	32,400.0	76.2	41,963.4	31,000.0	73.9	46,791.6	35,000.0	74.8
Department of the Interior	552,424.5	374,223.7	67.7	583,100.7	392,235.1	67.3	623,316.5	421,411.0	67.6
Bureau of Ocean Energy Management[b]	0.0	0.0	-	16,862.3	1,591.4	9.4	16,359.2	2,088.3	12.8
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	12,750.6	2,114.3	16.6	0.0	0.0	-	0.0	0.0	-
Bureau of Reclamation	7,157.0	1,699.0	23.7	3,196.0	1,087.0	34.0	3,196.0	1,087.0	34.0
Bureau of Safety and Environmental Enforcement[b]	0.0	0.0	-	1,198.4	376.2	31.4	1,000.5	500.5	50.0
National Park Service	727.0	216.2	29.7	0.0	0.0	-	0.0	0.0	-
U.S. Geological Survey	531,789.9	370,194.2	69.6	561,844.0	389,180.5	69.3	602,760.9	417,735.2	69.3
Department of Justice	26,484.8	6,856.8	25.9	14,914.3	4,135.7	27.7	12,112.2	4,191.8	34.6
Bureau of Prisons	3,203.1	3,004.5	93.8	3,076.4	2,885.7	93.8	3,136.3	2,941.8	93.8
Federal Bureau of Investigation	17,740.9	2,349.0	13.2	8,975.9	1,250.0	13.9	8,975.9	1,250.0	13.9
Office of Justice Programs	5,540.8	1,503.3	27.1	2,861.9	*	**	0.0	0.0	-
Department of Labor	4,950.4	4,950.4	100.0	5,256.3	5,256.3	100.0	5,402.5	5,402.5	100.0
Employee Benefits Security Administration	1,311.4	1,311.4	100.0	1,499.3	1,499.3	100.0	1,550.5	1,550.5	100.0
Occupational Safety and Health Administration	3,022.0	3,022.0	100.0	3,140.0	3,140.0	100.0	3,235.0	3,235.0	100.0
Pension Benefit Guaranty Corp.	617.0	617.0	100.0	617.0	617.0	100.0	617.0	617.0	100.0
Department of State	3,258.2	717.5	22.0	2,182.5	717.5	32.9	2,020.0	717.5	35.5
Department of Transportation	225,434.2	91,643.5	40.7	296,202.1	99,943.2	33.7	267,045.1	111,568.5	41.8
Federal Aviation Administration	124,905.8	75,328.5	60.3	138,396.5	81,672.0	59.0	129,736.5	77,126.0	59.4
Federal Highway Administration	47,211.9	2.6	**	62,617.5	2.9	**	67,330.3	3.0	**
Federal Motor Carrier Safety Administration	387.0	258.0	66.7	182.8	121.9	66.7	183.6	50.4	27.4
Federal Railroad Administration	10,265.5	3,355.0	32.7	44,489.0	4,254.0	9.6	11,965.7	3,435.4	28.7

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2011–13

(Dollars in thousands)

Agency	Total intramural R&D (2011)	Personnel costs (2011)		Preliminary					
				Total intramural R&D (2012)	Personnel costs (2012)		Total intramural R&D (2013)	Personnel costs (2013)	
		Amount	% of total		Amount	% of total		Amount	% of total
Federal Transit Administration	1,450.0	1,450.0	100.0	1,812.0	1,812.0	100.0	1,993.0	1,993.0	100.0
National Highway Traffic Safety Administration	25,186.0	1,020.0	4.0	25,541.0	1,020.0	4.0	39,375.0	17,158.0	43.6
Office of the Secretary	7,569.0	5,257.0	69.5	13,678.0	5,468.4	40.0	8,215.0	5,600.0	68.2
Pipeline and Hazardous Materials Safety Administration	3,382.7	1,100.0	32.5	2,907.0	1,207.0	41.5	2,491.0	1,801.0	72.3
Research and Innovative Technology Administration	5,076.3	3,872.5	76.3	6,578.2	4,385.0	66.7	5,755.0	4,401.7	76.5
Department of the Treasury	73,908.6	49,806.5	67.4	71,663.5	47,903.1	66.8	76,317.1	47,811.7	62.6
Bureau of Engraving and Printing	5,770.5	502.9	8.7	4,820.9	450.5	9.3	9,524.5	409.1	4.3
Internal Revenue Service	68,088.1	49,253.6	72.3	66,792.6	47,402.6	71.0	66,792.6	47,402.6	71.0
U.S. Mint	50.0	50.0	100.0	50.0	50.0	100.0	0.0	0.0	-
Department of Veterans Affairs	612,901.0	312,683.2	51.0	607,819.0	310,099.7	51.0	592,674.0	302,372.9	51.0
Other agencies									
Agency for International Development	4,700.0	235.0	5.0	4,794.0	239.7	5.0	4,889.9	244.5	5.0
Appalachian Regional Commission	*	*	100.0	*	*	100.0	*	*	100.0
Environmental Protection Agency	255,094.2	254,050.9	99.6	248,703.5	247,686.3	99.6	253,201.6	252,165.9	99.6
Federal Communications Commission	3,660.6	3,660.6	100.0	3,883.4	3,883.4	100.0	4,760.3	4,760.3	100.0
Federal Trade Commission	2,728.8	1,672.8	61.3	1,907.2	1,169.1	61.3	1,942.0	1,190.5	61.3
Library of Congress	1,505.1	682.8	45.4	1,297.7	681.2	52.5	1,396.5	695.5	49.8
National Aeronautics and Space Administration	1,036,813.3	508,064.4	49.0	1,001,705.2	480,642.2	48.0	1,033,291.6	496,174.6	48.0
National Archives and Records Administration	1,786.1	1,246.9	69.8	1,254.8	942.8	75.1	1,254.8	942.8	75.1
National Science Foundation	83,981.0	*	**	84,595.9	*	**	88,812.9	*	**
Nuclear Regulatory Commission	7,960.6	3,204.1	40.3	8,434.6	3,774.2	44.7	13,059.5	6,093.4	46.7
Smithsonian Institution	193,052.0	125,483.8	65.0	193,526.0	125,791.9	65.0	198,978.0	129,335.7	65.0
Social Security Administration	10,334.0	10,334.0	100.0	21,067.0	21,067.0	100.0	23,510.0	2,351.0	10.0

* = amount greater than $0 but less than $50; ** = percentage greater than 0% but less than 0.05%; - = no value possible.

[a] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	65,719.0	68,385.8	68,328.3	68,694.4	68,007.6	70,892.7	72,466.1	72,613.9	81,167.3	87,061.8	92,685.9
Departments											
Department of Agriculture	1,382.8	1,453.4	1,486.9	1,504.3	1,438.3	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2
Agricultural Research Service	686.5	732.6	735.3	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6	1,131.4
Animal and Plant Health Inspection Service	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7
Economic Research Service	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	na
Foreign Agricultural Service	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	182.0	185.8	195.7	197.8	180.4	181.8	190.6	206.0	244.0	263.0	292.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0
Human Nutrition Information Service	9.7	7.3	5.3	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6
National Institute of Food and Agriculture[a]	415.1	433.2	456.9	463.9	434.9	435.8	474.2	464.8	425.4	478.9	487.6
Office of International Cooperation and Development	2.4	2.6	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	643.4	652.0	810.3	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6
Economic Development Administration	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4
National Institute of Standards and Technology	160.6	189.8	237.8	350.4	404.9	473.3	482.3	456.0	433.6	474.2	532.2
National Oceanic and Atmospheric Administration	472.2	452.4	562.9	523.6	528.5	530.9	519.6	547.2	597.1	501.0	651.3
National Telecommunications and Information Administration	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0
U.S. Census Bureau	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7
Department of Defense	34,631.7	34,525.9	35,179.2	34,001.9	35,501.6	35,699.0	35,530.3	33,814.9	38,559.0	40,590.1	42,032.3
Defense agencies and activities	7,450.3	6,689.7	8,125.3	7,112.1	7,198.7	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1
Department of the Air Force	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	18,819.4	17,599.3	14,161.8
Department of the Army	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9
Department of the Navy	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2
Operational Test and Evaluation, Director	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5
Test and Evaluation, Deputy Under Secretary of Defense	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na
Department of Education	135.5	186.7	179.2	180.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1
Department of Energy	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	739.8
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480.5
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	3,711.7
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	2,770.0

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	22.0
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	654.4
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	265.4
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.2
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,823.4
Department of Health and Human Services	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1
Administration for Children and Families	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7
Administration on Aging	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1
Agency for Healthcare Research and Quality	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9
Food and Drug Administration	150.0	174.2	160.5	147.9	138.8	165.9	155.9	133.3	143.8	152.4	129.7
Health Resources and Services Administration	10.5	11.0	17.8	14.4	11.9	13.8	13.8	13.0	36.2	51.6	54.7
National Institutes of Health	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5
Office of the Assistant Secretary for Health	21.7	15.8	0.7	0.6	na	na	na	na	na	na	na
Office of the Secretary	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5
Office of Public Health and Science	na	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9
Social Security Administration	33.4	15.9	22.2	11.3	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6
Department of Housing and Urban Development	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7
Department of the Interior	628.4	651.8	644.9	558.8	547.2	572.6	566.9	608.1	581.2	623.2	633.2
Bureau of Land Management	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	113.9	111.8	107.9	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	4.1	6.1	19.5	20.8	21.7	22.6	28.4	29.7	30.5	28.0	31.7
Bureau of Reclamation	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4
National Biological Service	na	0.0	110.3	151.0	na	na	na	na	na	na	na
National Park Service	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2
Office of Surface Mining Reclamation and Enforcement	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	89.3	91.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	370.3	385.2	375.5	359.3	498.6	517.2	499.9	545.7	506.1	572.6	565.0
Department of Justice	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7
Bureau of Prisons	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7
Drug Enforcement Administration	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0
Office of Justice Programs	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Department of Labor	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6
Bureau of Labor Statistics	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9
Employment and Training Administration	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1
Occupational Safety and Health Administration	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8
Office of the Secretary	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2
Pension Benefit Guaranty Corp.	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7
Department of State	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6
Department of Transportation	411.1	455.3	536.9	661.4	593.0	548.4	537.3	523.9	449.6	515.4	732.9
Federal Aviation Administration	250.7	260.1	258.9	270.8	265.8	236.0	229.5	187.9	230.2	203.0	309.0
Federal Highway Administration	81.2	87.5	178.5	260.6	236.5	218.0	210.4	230.7	106.7	201.9	209.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	0.4	5.5	2.0
Federal Railroad Administration	21.5	22.8	19.6	22.8	20.0	18.1	23.0	22.1	25.3	21.0	28.4
Federal Transit Administration	1.5	16.5	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3
Maritime Administration	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1
Office of the Secretary	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1
Research and Special Programs Administration	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	95.0
U.S. Coast Guard	22.8	32.2	26.1	21.1	23.4	23.3	20.1	20.7	20.0	19.3	20.0
Department of the Treasury	24.5	16.6	20.7	61.5	60.2	59.8	65.2	64.8	60.4	65.1	70.7
Bureau of Engraving and Printing	2.0	3.2	3.4	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1
Financial Crimes Enforcement Network	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	2.2	7.1
U.S. Mint	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*
U.S. Secret Service	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	207.6	250.8	246.0	258.3	240.6	243.2	248.1	339.4	342.0	345.3	329.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*	0.3
Consumer Product Safety Commission	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0
Environmental Protection Agency	411.9	497.7	558.3	495.5	476.3	537.0	524.0	593.0	492.0	550.0	561.0
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8
General Services Administration	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Library of Congress	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8
National Aeronautics and Space Administration	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0
National Archives and Records Administration	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0
Nuclear Regulatory Commission	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0
Smithsonian Institution	95.4	97.2	127.4	125.0	125.0	126.0	115.5	88.5	95.5	95.5	103.5
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9
Tennessee Valley Authority	103.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0	0.0
U.S. Information Agency	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	104,337.1	109,030.5	121,230.1	118,908.6	123,998.3	125,125.3	129,678.7	137,523.1	135,743.9	134,263.0	137,369.7
Departments											
Department of Agriculture	2,043.4	2,161.4	2,281.5	2,369.5	2,433.5	2,401.8	2,303.7	2,434.6	2,419.5	2,436.9	2,633.9
Agricultural Marketing Service	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.3
Agricultural Research Service	1,100.0	1,192.9	1,248.7	1,305.7	1,293.7	1,275.4	1,176.5	1,255.8	1,263.5	1,210.0	1,148.0
Animal and Plant Health Inspection Service	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	24.6	33.2	31.5
Economic Research Service	70.3	65.7	74.6	72.8	90.6	77.8	79.7	86.4	87.9	82.0	84.0
Foreign Agricultural Service	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.6
Forest Service	321.0	345.0	343.0	354.5	360.0	358.9	367.5	432.8	370.0	405.7	363.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4
National Institute of Food and Agriculture[a]	503.1	506.8	563.5	586.0	621.8	639.3	634.0	611.7	653.8	685.2	985.0
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.7	0.7	2.3	2.3
Department of Commerce	1,248.2	1,156.6	747.5	710.2	1,059.3	1,165.9	1,252.4	1,409.3	1,589.7	1,401.4	1,796.3
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	20.7	28.3	33.7	15.5	32.2	0.0
National Institute of Standards and Technology	536.6	558.1	478.5	467.1	457.5	493.2	501.2	636.5	741.7	680.1	956.5
National Oceanic and Atmospheric Administration	667.8	550.0	242.1	215.5	573.7	627.1	686.9	684.7	765.7	580.6	650.6
National Telecommunications and Information Administration	23.5	24.2	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.0	6.2
U.S. Census Bureau	19.9	24.2	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.5	182.9
Department of Defense	49,852.1	53,165.3	64,521.6	63,817.6	68,708.7	68,861.8	66,971.2	67,763.1	72,659.3	70,558.5	72,567.1
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	2,889.3	2,834.2	2,822.8
Defense agencies and activities[b]	11,879.0	11,140.8	17,133.7	14,005.4	14,722.8	15,559.8	15,606.9	15,209.9	na	na	na
Department of the Air Force	18,153.0	19,721.4	20,950.8	21,445.9	24,498.1	24,213.6	23,569.4	26,235.0	25,970.1	26,956.8	30,013.4
Department of the Army	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,124.8	9,209.6	8,125.0	9,776.2	9,118.9
Department of the Navy	12,484.9	15,043.8	16,269.8	17,442.7	18,934.7	17,851.0	17,491.6	16,924.3	15,361.7	15,975.1	14,703.8
Operational Test and Evaluation, Director[b]	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	20,313.3	15,016.2	15,908.1
Department of Education	315.6	226.9	264.3	254.5	271.2	286.8	312.0	321.7	105.7	108.2	104.6
Department of Energy	8,424.5	8,501.7	8,607.0	8,213.1	8,444.0	8,856.6	9,770.8	9,890.6	10,456.2	10,243.3	10,955.6
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	63.8	118.4	130.0	130.0
Bonneville Power Administration	23.3	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3	16.2
Civilian Radioactive Waste Management	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	71.8	108.3	54.4	89.4	87.1	83.0	89.5	71.4	88.1
Energy Efficiency and Renewable Energy	688.5	603.6	593.9	456.7	648.2	794.0	729.5	968.5	888.5	909.8	1,168.5
Environmental Management	69.4	42.8	49.8	34.0	32.0	35.8	13.1	69.9	67.5	20.5	20.0
Fossil Energy	642.7	505.5	538.8	386.1	430.6	325.0	358.6	364.5	303.1	295.2	224.9
National Nuclear Security Administration	3,895.1	4,005.3	3,925.0	3,858.1	3,794.1	3,999.3	3,661.1	3,769.2	4,185.6	4,237.9	4,451.6
Defense Programs	2,996.7	3,135.1	3,001.3	2,865.2	2,827.8	2,939.4	2,575.8	2,486.5	2,887.8	2,850.6	3,046.8
Fissile Materials Disposition	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Naval Reactors	658.3	706.0	778.3	749.6	761.4	760.9	770.2	945.1	974.3	1,071.0	1,088.6
Nonproliferation and Verification	223.5	163.3	145.5	243.3	204.8	299.0	315.1	337.6	323.5	316.3	316.2
Nuclear Energy	43.0	79.3	82.8	89.0	80.9	133.1	116.0	368.1	387.8	263.6	314.4
Office of Intelligence	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,982.7	3,167.0	3,259.6	3,217.3	3,382.2	3,457.9	4,795.7	4,190.6	4,402.6	4,299.6	4,541.9
Department of Health and Human Services	27,316.4	28,263.2	28,861.7	28,799.4	29,261.3	29,268.4	35,295.5	36,610.2	30,458.6	30,611.5	30,741.2
Administration for Children and Families	19.4	18.7	38.6	13.4	11.8	19.2	13.7	6.5	9.3	9.5	9.7
Administration on Aging	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	688.5	678.7	413.7	338.9	343.0	296.5	271.7	257.8
Ctrs. for Medicare and Medicaid Services	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	45.2	31.5	35.5
Food and Drug Administration	158.1	134.0	140.0	139.8	130.2	138.0	163.9	201.1	214.9	207.8	246.9
Health Resources and Services Administration	439.5	48.0	53.4	24.1	23.9	62.3	56.4	67.0	37.4	37.9	133.6
National Institutes of Health	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,028.7	30,034.5
Office of the Secretary	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of Public Health and Science	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Substance Abuse and Mental Health Services Administration	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	NA	592.3	1,027.6	1,713.9	1,181.3	1,009.3	438.3	976.0	1,165.7	1,207.8	1,090.3
Science and Technology Directorate	NA	432.4	834.7	1,677.0	1,153.0	993.0	417.3	949.0	1,144.0	1,187.0	1,063.0
Transportation Security Administration	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	21.1	11.4	23.8	23.7	15.6	21.0	27.0	21.7	20.8	27.3
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	54.3	43.2	47.9	42.0	32.5	32.5	36.4	50.5	50.1	58.7	80.4
Department of the Interior	600.9	612.2	597.0	607.6	625.7	644.4	744.9	725.6	713.8	733.1	793.8
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	33.8	37.6
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	29.5	29.5	29.9	31.2	28.7	34.3	39.4	43.7	49.6	na	na
Bureau of Reclamation	11.0	16.3	17.3	11.1	15.5	15.2	17.3	13.3	15.1	12.0	12.0
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	11.7	17.6
National Park Service	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	0.0	0.0
U.S. Geological Survey	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	675.5	726.5
Department of Justice	103.2	68.7	66.1	71.4	123.9	112.9	103.4	118.6	102.3	66.4	20.4
Bureau of Prisons	9.7	9.4	12.5	12.1	12.7	10.6	10.5	10.8	11.6	11.2	11.4
Federal Bureau of Investigation	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	9.0	9.0
Office of Justice Programs	50.7	25.3	20.1	25.0	40.4	76.2	78.4	77.8	72.9	46.2	0.0
Department of Labor	176.4	198.2	162.9	94.3	59.3	84.4	71.6	13.0	11.8	14.1	14.3
Bureau of Labor Statistics	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.5	4.7	7.4	7.4

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Employment and Training Administration	148.0	170.1	133.7	64.1	29.4	53.7	64.2	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.3	3.4	3.5	3.4	3.6	4.5	5.9	4.3	4.0	4.1
Office of the Secretary	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.7
Department of State	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	2.0
Department of Transportation	592.0	569.4	412.1	884.3	775.3	625.8	544.5	781.0	786.3	795.5	704.8
Federal Aviation Administration	250.0	262.0	241.0	307.0	282.0	218.0	197.0	258.0	228.0	252.0	259.0
Federal Highway Administration	230.0	238.1	73.9	400.1	339.9	259.7	214.9	352.4	320.1	294.2	278.9
Federal Motor Carrier Safety Administration	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.3	6.9
Federal Railroad Administration	27.9	32.6	22.8	58.7	36.6	39.6	41.6	45.4	41.7	95.5	50.7
Federal Transit Administration	3.8	4.4	4.2	6.5	4.0	7.0	6.9	21.7	42.0	44.0	51.7
National Highway Traffic Safety Administration	50.7	7.0	31.7	75.0	66.0	58.7	44.3	64.6	116.0	63.0	20.0
Office of the Secretary	15.7	11.0	28.8	15.6	16.2	15.9	19.5	20.3	17.9	21.7	16.6
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.7	15.0	17.0
Research and Innovative Technology Administration	na	0.0	1.0	2.0	2.0	7.0	9.0	4.0	4.0	4.0	4.0
Research and Special Programs Administration	11.0	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	60.0	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.1	78.4
Bureau of Engraving and Printing	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	4.8	9.5
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	0.7	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.3	0.0
Department of Veterans Affairs	365.7	405.6	402.3	412.0	446.5	480.0	510.0	581.0	558.9	571.8	573.2
Other agencies											
Agency for International Development	220.0	254.0	260.4	255.0	234.5	123.8	156.2	168.7	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.2	*	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	550.0	0.2	0.5	0.2	0.5	532.0	552.8	594.7	581.7	567.5	575.6
Federal Communications Commission	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.1	1.2
National Aeronautics and Space Administration	8,719.9	8,746.3	8,656.6	6,209.6	5,930.3	6,071.7	5,814.9	8,880.9	7,723.7	7,650.3	8,279.9
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0
National Science Foundation	3,507.0	3,796.0	4,025.0	4,102.0	4,022.0	4,205.0	4,370.0	5,758.0	5,748.0	6,628.0	5,820.0

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Regulatory Commission	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	87.0
Smithsonian Institution	100.5	106.0	110.0	139.0	172.0	182.0	200.0	217.0	249.2	242.8	242.4
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 109. Federal outlays for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	62,934.5	65,241.3	66,150.8	66,662.0	66,142.0	68,897.9	70,631.9	70,585.2	76,897.6	82,705.3	88,297.6
Departments											
Department of Agriculture	1,246.0	1,303.9	1,353.6	1,375.8	1,335.7	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2
Agricultural Research Service	617.1	643.4	660.0	679.3	672.4	699.5	687.1	733.5	790.4	912.3	1,039.4
Animal and Plant Health Inspection Service	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7
Economic Research Service	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	na
Foreign Agricultural Service	0.0	0.0	0.7	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	174.8	179.3	190.8	193.5	177.9	179.8	188.0	194.0	232.0	250.0	277.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0
Human Nutrition Information Service	9.7	7.3	5.3	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6
National Institute of Food and Agriculture[a]	354.9	379.4	404.1	418.8	403.8	386.5	412.7	424.2	425.4	478.9	487.6
Office of International Cooperation and Development	2.4	2.6	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	622.1	629.6	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5	1,113.7
Economic Development Administration	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4
National Institute of Standards and Technology	149.1	180.1	225.2	327.4	378.0	424.4	439.8	419.6	412.8	424.9	413.3
National Oceanic and Atmospheric Administration	462.4	439.5	562.6	523.1	528.5	509.3	519.6	547.2	597.1	501.0	651.3
National Telecommunications and Information Administration	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0
U.S. Census Bureau	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7
Department of Defense	34,220.8	34,152.7	34,918.2	33,920.9	35,387.0	35,646.6	35,490.6	33,687.3	38,519.1	40,528.5	41,662.9
Defense agencies and activities	7,358.7	6,628.0	8,084.7	7,099.7	7,170.3	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9
Department of the Air Force	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3	14,886.7	14,242.5	13,899.4	18,817.0	17,589.5	14,156.3
Department of the Army	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8
Department of the Navy	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5
Operational Test and Evaluation, Director	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5
Test and Evaluation, Deputy Under Secretary of Defense	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na
Department of Education	133.0	173.8	177.2	179.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1
Department of Energy	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	734.9
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	471.3
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	3,299.4
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	2,372.7

TABLE 109. Federal outlays for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	22.0
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	639.3
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	265.4
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.2
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,225.5
Department of Health and Human Services	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8
Administration for Children and Families	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7
Administration on Aging	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1
Agency for Healthcare Research and Quality	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9
Food and Drug Administration	135.7	154.5	138.6	131.3	133.3	157.3	142.9	130.8	141.2	149.4	119.4
Health Resources and Services Administration	10.1	9.6	16.4	12.8	11.2	13.1	12.9	12.4	35.6	51.0	54.1
National Institutes of Health	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1
Office of the Assistant Secretary for Health	21.7	15.8	0.7	0.6	na	na	na	na	na	na	na
Office of the Secretary	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5
Office of Public Health and Science	na	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9
Social Security Administration	33.4	15.9	22.2	11.3	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6
Department of Housing and Urban Development	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7
Department of the Interior	610.6	631.0	637.4	552.3	545.1	566.1	565.3	606.7	579.8	621.1	631.1
Bureau of Land Management	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	113.9	111.8	107.9	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	3.4	5.1	18.3	19.8	20.7	20.8	26.8	28.2	29.1	25.9	29.6
Bureau of Reclamation	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4
National Biological Service	na	0.0	110.3	150.7	na	na	na	na	na	na	na
National Park Service	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2
Office of Surface Mining, Reclamation, and Enforcement	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	76.6	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	365.9	381.2	369.1	354.1	497.6	512.5	499.9	545.7	506.1	572.6	565.0
Department of Justice	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7
Bureau of Prisons	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7
Drug Enforcement Administration	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0

TABLE 109. Federal outlays for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Office of Justice Programs	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4
Department of Labor	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6
Bureau of Labor Statistics	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9
Employment and Training Administration	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1
Occupational Safety and Health Administration	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8
Office of the Secretary	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2
Pension Benefit Guaranty Corp.	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7
Department of State	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6
Department of Transportation	394.0	425.2	519.9	634.7	578.8	527.6	516.0	508.4	436.7	510.6	681.5
Federal Aviation Administration	234.9	234.5	247.2	256.8	259.8	218.0	210.5	173.7	217.6	199.0	295.0
Federal Highway Administration	81.2	87.1	174.7	249.6	230.4	215.6	209.3	230.7	106.7	201.9	209.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	0.4	5.5	2.0
Federal Railroad Administration	20.6	21.6	18.6	21.5	18.5	18.1	22.0	21.1	25.3	20.4	27.3
Federal Transit Administration	1.5	14.3	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3
Maritime Administration	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1
Office of the Secretary	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1
Research and Special Programs Administration	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	59.0
U.S. Coast Guard	22.4	31.7	25.5	20.6	22.8	22.9	19.9	20.4	19.8	19.0	19.7
Department of the Treasury	24.4	16.5	18.9	61.4	60.0	59.7	65.1	64.7	60.3	65.1	70.7
Bureau of Engraving and Printing	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1
Financial Crimes Enforcement Network	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	2.2	7.1
U.S. Mint	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*
U.S. Secret Service	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	202.1	246.0	240.8	251.1	232.1	234.9	246.9	339.1	341.7	345.0	328.8
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*	0.3
Consumer Product Safety Commission	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0
Environmental Protection Agency	411.9	495.2	553.5	492.5	476.3	515.0	503.0	532.0	472.0	520.0	561.0
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8

TABLE 109. Federal outlays for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Library of Congress	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8
National Aeronautics and Space Administration	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0
National Archives and Records Administration	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0
Nuclear Regulatory Commission	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0
Smithsonian Institution	94.2	96.0	121.2	119.0	121.0	123.0	113.0	86.0	93.0	93.0	101.0
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9
Tennessee Valley Authority	98.8	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0	0.0
U.S. Information Agency	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 110. Federal outlays for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	100,179.3	105,174.9	117,398.5	116,867.6	121,875.1	123,059.1	126,854.2	131,387.6	131,443.0	129,896.2	132,955.4
Departments											
Department of Agriculture	1,966.3	2,048.2	2,132.1	2,185.0	2,217.6	2,254.1	2,229.4	2,308.9	2,300.5	2,364.2	2,613.9
Agricultural Marketing Service	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.3
Agricultural Research Service	1,039.0	1,098.7	1,117.3	1,134.7	1,102.8	1,148.6	1,133.7	1,199.9	1,161.5	1,146.0	1,135.0
Animal and Plant Health Inspection Service	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	24.6	33.2	31.5
Economic Research Service	70.3	65.7	74.6	72.8	90.6	77.8	79.7	86.4	87.9	82.0	84.0
Foreign Agricultural Service	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.6
Forest Service	305.0	326.0	325.0	341.0	335.0	338.0	336.0	363.0	353.0	397.0	356.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4
National Institute of Food and Agriculture[a]	503.1	506.8	563.5	586.0	621.8	639.3	634.0	611.7	653.8	685.2	985.0
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.7	0.7	2.3	2.3
Department of Commerce	1,155.2	1,076.4	707.7	664.2	991.1	1,052.1	1,004.4	1,121.6	1,267.0	1,154.3	1,553.2
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	2.2	2.9	7.3	0.6	5.2	0.0
National Institute of Standards and Technology	459.2	508.8	440.6	421.1	422.2	444.1	454.5	534.6	570.6	597.1	856.5
National Oceanic and Atmospheric Administration	652.0	519.0	240.2	215.5	540.7	580.8	510.9	525.4	629.0	443.5	507.6
National Telecommunications and Information Administration	23.5	24.2	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.0	6.2
U.S. Census Bureau	19.9	24.2	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.5	182.9
Department of Defense	49,614.9	52,977.5	64,311.4	63,724.3	68,557.0	68,731.4	66,775.3	67,614.8	72,527.4	70,420.3	72,428.1
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	2,889.3	2,834.2	2,822.8
Defense agencies and activities[b]	11,741.1	11,074.2	17,056.7	13,970.6	14,686.5	15,521.3	15,598.7	15,209.7	na	na	na
Department of the Air Force	18,146.2	19,711.8	20,915.1	21,407.2	24,483.0	24,121.7	23,458.2	26,106.2	25,854.5	26,834.4	29,891.4
Department of the Army	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,048.3	9,209.6	8,125.0	9,776.2	9,118.9
Department of the Navy	12,392.4	14,932.4	16,172.3	17,422.9	18,834.4	17,851.0	17,491.6	16,905.1	15,345.4	15,959.3	14,686.9
Operational Test and Evaluation, Director[b]	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	20,313.3	15,016.2	15,908.1
Department of Education	315.6	226.9	264.3	254.5	271.2	286.8	312.0	321.7	105.7	108.2	104.6
Department of Energy	7,372.7	7,475.8	7,760.2	7,432.9	7,792.8	8,108.3	8,546.3	8,986.2	9,685.0	9,510.9	10,229.4
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	63.8	118.4	130.0	130.0
Bonneville Power Administration	23.3	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3	16.2
Civilian Radioactive Waste Management	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	71.8	108.3	54.4	89.4	87.1	83.0	89.5	71.4	88.1
Energy Efficiency and Renewable Energy	682.3	583.9	569.1	430.6	646.4	729.1	712.3	915.1	852.6	909.8	1,168.5
Environmental Management	69.4	42.8	49.8	34.0	32.0	35.8	13.1	69.9	67.5	20.5	20.0
Fossil Energy	639.8	499.5	532.7	365.6	418.6	306.3	343.8	349.7	288.4	282.7	215.0
National Nuclear Security Administration	3,448.3	3,579.4	3,624.9	3,547.6	3,589.5	3,730.5	3,488.9	3,488.8	4,033.9	4,081.6	4,288.2
Defense Programs	2,576.7	2,727.4	2,732.9	2,593.6	2,656.9	2,707.4	2,443.7	2,285.1	2,768.7	2,734.2	2,933.0
Fissile Materials Disposition	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 110. Federal outlays for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Naval Reactors	631.5	687.8	746.6	710.7	727.8	724.1	730.1	866.1	941.7	1,031.1	1,039.0
Nonproliferation and Verification	223.5	163.3	145.5	243.3	204.8	299.0	315.1	337.6	323.5	316.3	316.2
Nuclear Energy	43.0	79.3	82.8	89.0	80.9	133.1	116.0	368.1	387.8	263.6	314.4
Office of Intelligence	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,386.7	2,592.8	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,833.6	3,736.0	3,988.9
Department of Health and Human Services	26,499.3	27,834.6	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,379.4	30,469.0	30,596.8
Administration for Children and Families	19.4	18.7	38.6	13.4	11.8	19.2	13.7	6.5	9.3	9.5	9.7
Administration on Aging	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	544.6	544.3	407.2	338.9	343.0	296.5	271.7	257.8
Ctrs. for Medicare and Medicaid Services	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	45.2	31.5	35.5
Food and Drug Administration	149.5	127.5	136.9	138.0	124.6	132.9	159.1	188.4	206.4	199.2	236.3
Health Resources and Services Administration	439.2	47.4	52.9	23.6	23.2	61.6	56.3	66.3	36.8	37.2	132.9
National Institutes of Health	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,895.4	29,901.3
Office of the Secretary	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of Public Health and Science	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Substance Abuse and Mental Health Services Administration	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	NA	535.9	966.4	1,592.7	922.3	798.8	92.2	583.1	471.4	487.4	445.0
Science and Technology Directorate	NA	377.0	774.5	1,556.1	894.5	783.0	72.6	557.2	450.9	467.9	419.0
Transportation Security Administration	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	20.1	10.4	23.4	23.1	15.1	19.5	25.9	20.5	19.6	26.0
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	54.3	43.2	47.9	42.0	32.5	32.5	36.4	50.5	50.1	58.7	80.4
Department of the Interior	597.4	604.6	589.7	602.3	615.9	635.3	738.0	720.0	705.4	729.3	789.2
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	33.8	37.6
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	27.4	27.2	27.2	28.1	25.8	31.6	37.1	41.7	44.8	na	na
Bureau of Reclamation	9.5	10.9	12.7	8.8	8.5	8.9	12.7	9.7	11.5	10.0	10.0
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	10.0	15.1
National Park Service	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	0.0	0.0
U.S. Geological Survey	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	675.5	726.5
Department of Justice	103.2	68.7	66.1	71.4	123.9	111.9	103.4	118.6	102.3	66.4	20.4
Bureau of Prisons	9.7	9.4	12.5	12.1	12.7	10.6	10.5	10.8	11.6	11.2	11.4
Federal Bureau of Investigation	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	9.0	9.0
Office of Justice Programs	50.7	25.3	20.1	25.0	40.4	75.2	78.4	77.8	72.9	46.2	0.0
Department of Labor	176.4	198.2	162.9	94.3	58.8	83.8	71.0	11.9	10.5	13.3	13.4
Bureau of Labor Statistics	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.5	4.7	7.4	7.4

TABLE 110. Federal outlays for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Employment and Training Administration	148.0	170.1	133.7	64.1	29.4	53.7	64.2	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.3	3.4	3.5	2.9	3.0	3.8	4.8	3.0	3.1	3.2
Office of the Secretary	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.7
Department of State	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	2.0
Department of Transportation	584.6	554.6	396.3	866.2	755.5	606.9	525.6	760.5	768.5	772.7	680.8
Federal Aviation Administration	244.0	248.0	226.0	290.0	264.0	201.0	180.0	239.0	211.0	232.0	238.0
Federal Highway Administration	230.0	238.1	73.9	400.1	339.9	259.7	214.9	352.4	320.1	294.2	278.9
Federal Motor Carrier Safety Administration	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.3	6.9
Federal Railroad Administration	26.5	31.8	22.0	57.6	34.7	37.8	39.7	44.0	40.9	92.6	47.7
Federal Transit Administration	3.8	4.4	4.2	6.5	4.0	7.0	6.9	21.7	42.0	44.0	51.7
National Highway Traffic Safety Administration	50.7	7.0	31.7	75.0	66.0	58.7	44.3	64.6	116.0	63.0	20.0
Office of the Secretary	15.7	11.0	28.8	15.6	16.2	15.9	19.5	20.3	17.9	21.7	16.6
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.7	15.0	17.0
Research and Innovative Technology Administration	na	0.0	1.0	2.0	2.0	7.0	9.0	4.0	4.0	4.0	4.0
Research and Special Programs Administration	11.0	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	60.0	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.1	78.4
Bureau of Engraving and Printing	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	4.8	9.5
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	0.7	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.3	0.0
Department of Veterans Affairs	365.4	405.2	402.0	411.6	446.1	479.6	510.0	581.0	558.9	571.8	573.2
Other agencies											
Agency for International Development	220.0	254.0	260.4	255.0	234.5	123.8	156.2	168.7	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.2	*	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	550.0	0.2	0.5	0.2	0.5	532.0	552.8	594.7	577.0	562.8	570.9
Federal Communications Commission	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.1	1.2
National Aeronautics and Space Administration	7,124.1	7,165.5	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	6,015.8	6,410.9
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0
National Science Foundation	3,235.0	3,439.0	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	5,233.0	6,031.0	5,273.0

TABLE 110. Federal outlays for research and development, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Regulatory Commission	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	87.0
Smithsonian Institution	98.0	103.0	104.0	113.0	142.0	140.0	151.0	164.0	192.2	192.8	196.4
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	2,784.5	3,144.5	2,177.6	2,032.4	1,865.6	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3
Departments											
Department of Agriculture	136.8	149.5	133.4	128.4	102.6	122.3	159.1	166.6	108.4	115.2	107.0
Agricultural Research Service	69.4	89.2	75.3	79.1	67.5	70.9	95.0	113.9	96.4	102.2	92.0
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	7.2	6.5	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0
National Institute of Food and Agriculture[a]	60.2	53.8	52.8	45.1	31.1	49.3	61.5	40.6	0.0	0.0	0.0
Department of Commerce	21.3	22.4	12.9	23.5	26.9	70.5	42.5	36.3	20.7	49.4	118.9
National Institute of Standards and Technology	11.4	9.6	12.7	23.0	26.9	48.9	42.5	36.3	20.7	49.3	118.9
National Oceanic and Atmospheric Administration	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0
Department of Defense	410.9	373.2	261.0	81.0	114.7	52.4	39.7	127.6	40.0	61.6	369.4
Defense agencies and activities	91.6	61.7	40.6	12.4	28.3	5.3	9.0	18.8	2.8	2.2	282.3
Department of the Air Force	186.3	231.0	153.7	26.9	54.2	25.4	3.7	73.1	2.4	9.8	5.4
Department of the Army	22.0	7.0	3.8	4.2	5.6	4.8	4.1	4.1	1.7	0.3	0.1
Department of the Navy	111.0	73.5	62.9	37.5	26.6	16.9	22.9	31.5	33.1	49.3	81.6
Department of Education	2.5	12.8	1.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,198.0	1,483.2	921.8	864.1	809.9	806.7	776.3	801.9	806.7	876.5	1,024.3
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	4.9
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.3
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	412.4
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	397.3
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	15.1
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	597.8
Department of Health and Human Services	96.7	149.3	134.2	267.0	140.5	120.5	156.9	223.4	219.7	294.3	244.3
Food and Drug Administration	14.3	19.7	21.9	16.7	5.5	8.7	13.0	2.5	2.6	3.0	10.2
Health Resources and Services Administration	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6
National Institutes of Health	82.1	128.2	110.9	248.8	134.3	111.1	143.0	220.3	216.5	290.6	233.4
Department of the Interior	17.8	20.8	7.5	6.5	2.1	6.6	1.6	1.5	1.4	2.1	2.1
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	0.7	1.0	1.1	1.0	1.0	1.8	1.6	1.5	1.4	2.1	2.1
National Biological Service	na	0.0	0.1	0.3	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	12.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	4.4	4.0	6.3	5.3	1.1	4.8	0.0	0.0	0.0	0.0	0.0
Department of Transportation	17.1	30.0	17.0	26.7	14.2	20.8	21.3	15.5	12.9	4.8	51.4
Federal Aviation Administration	15.9	25.6	11.7	14.0	6.0	18.0	18.9	14.3	12.6	4.0	14.0
Federal Highway Administration	0.0	0.4	3.8	10.9	6.1	2.5	1.1	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.8	1.3	1.0	1.3	1.6	0.0	1.0	0.9	0.0	0.6	1.1
Federal Transit Administration	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	36.0
U.S. Coast Guard	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Department of the Treasury	0.1	0.2	1.9	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
Bureau of Engraving and Printing	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
U.S. Secret Service	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	5.5	4.8	5.2	7.2	8.5	8.3	1.2	0.3	0.3	0.4	0.4
Other agencies											
Environmental Protection Agency	0.0	2.5	4.8	3.0	0.0	22.0	21.0	61.0	20.0	30.0	0.0
General Services Administration	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*
National Aeronautics and Space Administration	770.2	798.4	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0
National Science Foundation	80.9	87.5	110.6	101.0	158.0	318.0	292.0	255.0	170.0	196.0	271.0
Smithsonian Institution	1.2	1.2	6.2	6.0	4.0	3.0	2.5	2.5	2.5	2.5	2.5
Tennessee Valley Authority	4.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 112. Federal outlays for R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	4,157.9	3,855.6	3,831.6	2,041.0	2,123.3	2,066.2	2,824.5	6,135.5	4,300.8	4,366.8	4,414.2
Departments											
Department of Agriculture	77.1	113.2	149.4	184.5	216.0	147.7	74.3	125.8	119.0	72.7	20.0
Agricultural Research Service	61.1	94.2	131.4	171.0	191.0	126.8	42.8	55.9	102.0	64.0	13.0
Forest Service	16.0	19.0	18.0	13.5	25.0	20.9	31.5	69.8	17.0	8.7	7.0
Department of Commerce	93.1	80.2	39.8	46.0	68.2	113.8	248.1	287.7	322.7	247.1	243.1
Economic Development Administration	NA	NA	NA	NA	NA	18.5	25.4	26.5	14.9	27.0	0.0
National Institute of Standards and Technology	77.3	49.2	37.9	46.0	35.3	49.1	46.7	101.9	171.1	83.0	100.0
National Oceanic and Atmospheric Administration	15.7	31.0	1.9	0.0	33.0	46.2	176.0	159.3	136.7	137.1	143.1
Department of Defense	237.2	187.7	210.2	93.3	151.7	130.4	195.9	148.3	131.9	138.2	139.0
Defense agencies and activities[a]	137.9	66.6	77.1	34.8	36.3	38.5	8.2	0.3	na	na	na
Department of the Air Force	6.8	9.7	35.7	38.7	15.1	91.9	111.2	128.8	115.6	122.4	122.0
Department of the Army	0.0	0.0	0.0	0.0	0.0	0.0	76.5	0.0	0.0	0.0	0.0
Department of the Navy	92.5	111.5	97.4	19.8	100.3	0.0	0.0	19.2	16.4	15.8	17.0
Department of Energy	1,051.8	1,025.9	846.8	780.3	651.3	748.3	1,224.5	904.4	771.3	732.3	726.2
Energy Efficiency and Renewable Energy	6.2	19.8	24.8	26.1	1.8	64.9	17.2	53.4	35.9	0.0	0.0
Fossil Energy	2.9	6.0	6.1	20.5	12.0	18.7	14.8	14.8	14.8	12.4	9.8
National Nuclear Security Administration	446.8	425.9	300.1	310.5	204.6	268.8	172.1	280.3	151.6	156.3	163.4
Defense Programs	419.9	407.8	268.4	271.6	171.0	232.0	132.0	201.3	119.1	116.4	113.8
Naval Reactors	26.8	18.2	31.7	38.9	33.6	36.8	40.1	79.0	32.5	39.9	49.6
Office of Science	596.0	574.3	515.8	423.2	432.8	395.9	1,020.4	555.9	569.0	563.6	553.0
Department of Health and Human Services	817.1	428.6	429.4	358.8	251.7	147.4	151.4	1,682.4	79.2	142.4	144.5
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	8.6	6.5	3.1	1.8	5.6	5.1	4.8	12.6	8.5	8.5	10.6
Health Resources and Services Administration	0.3	0.6	0.5	0.6	0.6	0.6	0.1	0.6	0.6	0.6	0.6
National Institutes of Health	808.2	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	133.2
Department of Homeland Security	NA	56.3	61.2	121.2	259.0	210.5	346.2	392.9	694.3	720.4	645.2
Science and Technology Directorate	NA	55.3	60.2	120.9	258.5	210.0	344.7	391.8	693.1	719.1	644.0
U.S. Coast Guard	NA	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.3	1.3
Department of the Interior	3.6	7.6	7.3	5.3	9.8	9.1	6.8	5.6	8.4	3.8	4.6
Bureau of Ocean Energy Management, Regulation and Enforcement[b, c]	2.1	2.3	2.7	3.1	2.9	2.7	2.3	2.0	4.8	na	na
Bureau of Reclamation	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	2.1
Bureau of Safety and Environmental Enforcement[b]	na	na	na	na	na	na	na	na	na	1.7	2.5
Department of Justice	NA	NA	NA	NA	NA	1.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	NA	NA	NA	NA	NA	1.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.3	0.8	0.9
Occupational Safety and Health Administration	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.3	0.8	0.9

TABLE 112. Federal outlays for R&D plant, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of Transportation	7.3	14.8	15.8	18.1	19.9	18.9	18.9	20.5	17.9	22.9	24.0
Federal Aviation Administration	6.0	14.0	15.0	17.0	18.0	17.0	17.0	19.0	17.0	20.0	21.0
Federal Railroad Administration	1.3	0.8	0.8	1.1	1.9	1.9	1.9	1.5	0.9	2.9	3.0
Department of Veterans Affairs	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
National Aeronautics and Space Administration	1,595.8	1,580.8	1,697.3	12.2	11.7	72.2	75.8	1,564.9	1,578.2	1,634.5	1,869.0
National Science Foundation	272.0	357.0	368.0	395.0	453.0	424.0	433.0	949.0	515.0	597.0	547.0
Smithsonian Institution	2.5	3.0	6.0	26.0	30.0	42.0	49.0	53.0	57.0	50.0	46.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies. Also, as of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[b] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[c] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	68,577.2	70,414.7	69,450.8	70,442.9	69,399.2	71,753.4	73,914.0	77,386.4	80,403.2	88,562.3	98,013.3
Departments											
Department of Agriculture	1,491.8	1,470.2	1,525.6	1,523.6	1,428.7	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2
Agricultural Research Service	725.2	705.5	757.0	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3	1,163.6
Animal and Plant Health Inspection Service	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7
Economic Research Service	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	0.0
Foreign Agricultural Service	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	184.3	186.3	198.0	197.8	180.4	181.8	190.4	209.0	235.0	250.0	268.0
Grain Inspection, Packers, and Stockyards Administration	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0
Human Nutrition Information Service	10.7	8.4	7.0	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6
National Institute of Food and Agriculture[a]	481.2	479.2	471.6	489.0	418.9	496.7	387.3	463.1	535.0	615.1	546.7
Office of International Cooperation and Development	1.5	1.5	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	672.2	681.7	857.3	1,213.7	1,152.0	1,046.5	970.0	1,009.8	1,237.1	1,021.7	1,180.5
Economic Development Administration	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5
National Institute of Standards and Technology	190.2	219.8	284.1	640.5	601.0	482.1	415.7	421.8	604.7	445.7	480.5
National Oceanic and Atmospheric Administration	472.2	452.4	562.9	561.4	528.5	530.9	519.5	547.2	597.1	501.0	651.3
National Telecommunications and Information Administration	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6
Office of the Secretary	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7
Department of Defense	36,526.0	36,220.7	34,818.9	33,856.8	34,582.2	34,873.8	35,352.0	35,753.4	36,262.2	40,129.3	45,777.8
Defense agencies and activities	7,670.5	7,723.3	7,367.8	7,369.1	7,742.0	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8
Department of the Air Force	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5	13,990.6	13,865.2	14,069.5	14,107.5	14,583.9	14,763.5
Department of the Army	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6
Department of the Navy	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5
Operational Test and Evaluation, Director	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5
Test and Evaluation, Deputy Under Secretary of Defense	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na
Department of Education	170.9	179.9	178.4	179.4	173.7	181.2	204.5	223.7	247.3	277.6	285.6
Department of Energy	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	744.7
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	373.5
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	3,728.3

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	2,770.0
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	27.4
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	665.5
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	265.4
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.5
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,932.2
Department of Health and Human Services	9,084.6	10,498.5	11,141.7	11,711.0	12,084.2	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1
Administration for Children and Families	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3
Administration on Aging	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7
Agency for Healthcare Research and Quality	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0
Food and Drug Administration	150.0	174.2	177.8	175.8	176.4	173.1	171.0	133.4	146.7	160.4	149.7
Health Resources and Services Administration	10.5	11.0	17.8	14.8	11.8	13.8	13.8	13.4	36.2	51.6	54.7
National Institutes of Health	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5
Office of the Assistant Secretary for Health	6.7	1.2	0.8	0.3	na	na	na	na	na	na	na
Office of the Secretary	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4
Office of Public Health and Science	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9
Social Security Administration	33.0	24.5	22.2	20.4	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6
Department of Housing and Urban Development	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3
Department of the Interior	627.6	642.2	703.1	568.3	569.5	587.1	533.5	642.9	581.2	622.1	634.9
Bureau of Land Management	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	107.1	111.9	107.9	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	4.8	6.9	21.8	21.0	22.6	22.8	30.8	30.1	30.5	27.0	33.3
Bureau of Reclamation	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4
National Biological Service	na	0.0	164.2	152.1	na	na	na	na	na	na	na
National Park Service	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2
Office of Surface Mining, Reclamation, and Enforcement	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	98.2	104.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	365.7	360.4	377.4	367.4	520.1	531.2	464.1	579.1	506.1	572.6	565.0
Department of Justice	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2
Bureau of Prisons	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7
Drug Enforcement Administration	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Office of Justice Programs	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9
Department of Labor	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4
Bureau of Labor Statistics	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7
Employment and Training Administration	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1
Occupational Safety and Health Administration	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8
Office of the Secretary	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2
Pension Benefit Guaranty Corp.	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7
Department of State	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3
Department of Transportation	470.3	577.6	661.7	755.8	584.3	545.9	583.7	681.5	479.3	690.5	867.2
Federal Aviation Administration	260.2	271.3	318.6	310.1	228.9	226.3	242.3	219.6	230.5	300.6	359.6
Federal Highway Administration	131.0	175.7	242.0	315.6	247.3	211.2	229.3	333.2	126.7	240.8	258.3
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	3.9	11.4	3.7
Federal Railroad Administration	22.8	26.8	20.6	30.1	30.1	19.5	22.6	20.9	27.4	26.2	34.1
Federal Transit Administration	1.7	31.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8
Maritime Administration	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6
Office of the Secretary	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4
Research and Special Programs Administration	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	95.0
U.S. Coast Guard	20.5	33.4	22.8	20.2	20.5	23.3	20.7	20.5	20.3	23.8	22.4
Department of the Treasury	24.8	16.8	19.1	61.5	60.2	59.8	65.2	64.8	61.5	67.7	74.4
Bureau of Engraving and Printing	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1
Financial Crimes Enforcement Network	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	4.0	10.6
U.S. Mint	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3
U.S. Secret Service	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	229.6	239.5	259.7	245.1	259.9	284.0	277.5	339.4	342.0	345.3	329.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	365.9	382.2	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	0.1	*	0.3
Consumer Product Safety Commission	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0
Environmental Protection Agency	483.9	497.8	558.3	556.3	464.3	517.2	637.2	668.8	523.2	472.5	415.2
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
General Services Administration	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0
Library of Congress	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0
National Aeronautics and Space Administration	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5
National Archives and Records Administration	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8
Nuclear Regulatory Commission	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3
Smithsonian Institution	101.8	107.0	129.2	129.0	132.0	134.0	123.0	93.0	101.0	101.0	109.0
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8
Tennessee Valley Authority	100.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0	0.0
U.S. Information Agency	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	107,793.8	116,068.6	122,619.0	123,854.7	129,431.2	129,049.5	144,758.1	146,967.8	139,661.5	139,158.9	141,176.3
Departments											
Department of Agriculture	2,136.0	2,281.6	2,318.6	2,386.2	2,372.3	2,246.0	2,344.7	2,615.4	2,376.9	2,475.8	2,278.2
Agricultural Marketing Service	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.3
Agricultural Research Service	1,143.2	1,258.6	1,226.8	1,294.0	1,240.9	1,145.6	1,187.2	1,359.6	1,151.6	1,108.5	1,104.6
Animal and Plant Health Inspection Service	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	39.0	37.0
Economic Research Service	68.4	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.7	77.4
Foreign Agricultural Service	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.6
Forest Service	307.2	314.9	315.9	321.6	345.3	315.9	375.7	426.3	370.4	374.7	328.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4
National Institute of Food and Agriculture[a]	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	854.0	707.8
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	3.3	3.3
Department of Commerce	1,267.0	1,148.6	1,094.1	1,016.2	1,145.4	1,196.4	1,533.4	1,683.2	1,308.9	1,302.7	2,071.3
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	20.7	28.3	19.0	15.5	32.2	0.0
National Institute of Standards and Technology	525.1	481.6	463.0	429.0	508.0	517.0	605.8	924.7	597.1	580.8	1,231.0
National Oceanic and Atmospheric Administration	695.4	618.5	600.3	558.2	606.9	627.1	863.3	684.7	629.0	580.6	650.6
National Telecommunications and Information Administration	23.5	24.2	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.5	6.7
U.S. Census Bureau	22.5	24.2	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.5	182.9
Department of Defense	52,148.5	58,067.6	63,660.5	65,933.9	72,290.5	71,996.6	75,973.7	73,623.9	75,327.6	74,629.8	73,848.6
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	2,846.4	2,884.3	2,817.0
Defense agencies and activities[b]	12,640.9	13,188.7	15,406.6	14,338.4	15,940.0	15,946.7	16,241.7	16,264.7	na	na	na
Department of the Air Force	18,265.8	20,338.5	20,078.0	21,699.2	25,292.0	25,338.9	28,051.3	26,648.7	26,641.5	28,612.5	29,482.2
Department of the Army	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,049.3	8,712.1
Department of the Navy	13,396.6	15,019.3	17,660.1	18,399.1	19,248.1	18,648.6	19,586.0	19,660.3	17,813.9	18,386.2	16,868.6
Operational Test and Evaluation, Director[b]	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	18,194.1	15,697.5	15,968.7
Department of Education	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.1	344.5	383.9
Department of Energy	8,436.0	8,560.5	8,596.7	8,340.1	8,629.8	8,990.3	11,562.2	11,644.9	10,680.4	10,333.8	11,409.3
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	377.8	174.9	110.9	194.0
Bonneville Power Administration	23.3	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3	16.2
Civilian Radioactive Waste Management	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	80.3	133.5	92.5	82.7	87.2	113.3	88.8	53.5	96.4
Energy Efficiency and Renewable Energy	688.5	603.6	576.7	456.7	768.7	794.0	1,790.8	1,998.1	902.5	986.1	1,392.0
Environmental Management	69.4	42.8	49.8	34.0	18.7	19.4	30.2	89.8	67.5	20.5	20.0
Fossil Energy	643.8	532.3	572.7	455.0	430.6	417.0	504.8	503.8	429.6	312.4	288.7
National Nuclear Security Administration	3,923.3	4,036.3	3,922.0	3,861.9	3,782.8	3,981.3	3,716.0	3,638.5	4,164.3	4,272.4	4,541.6
Defense Programs	2,996.7	3,135.1	3,001.3	2,865.2	2,826.8	2,939.4	2,608.2	2,406.7	2,866.5	2,885.1	3,136.7
Fissile Materials Disposition	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Naval Reactors	678.0	736.9	775.2	753.4	751.1	742.9	792.7	945.1	974.3	1,071.0	1,088.6
Nonproliferation and Verification	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	323.5	316.2	316.2
Nuclear Energy	47.1	74.3	84.5	89.0	80.9	133.1	116.0	368.1	387.8	263.6	314.4
Office of Intelligence	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,960.7	3,167.8	3,245.9	3,246.4	3,434.1	3,547.8	5,309.1	4,542.4	4,451.8	4,299.0	4,546.1
Department of Health and Human Services	27,214.8	28,563.8	29,172.5	29,126.5	29,556.1	29,700.7	35,735.9	37,616.9	30,928.0	31,058.3	30,997.5
Administration for Children and Families	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	9.8	10.0
Administration on Aging	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	308.7	303.7	318.7	318.7	318.9	334.4	378.1	852.5	370.7	369.1	334.4
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	688.5	678.7	544.7	420.3	446.9	385.9	341.1	263.5
Ctrs. for Medicare and Medicaid Services	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.2	24.6
Food and Drug Administration	145.6	140.8	142.8	147.2	137.7	143.0	171.2	223.2	233.7	226.2	269.3
Health Resources and Services Administration	43.5	48.0	53.4	24.1	23.9	62.8	57.0	67.0	37.4	37.9	38.0
National Institutes of Health	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,028.7	30,034.5
Office of the Secretary	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of Public Health and Science	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Substance Abuse and Mental Health Services Administration	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	NA	1,063.2	1,453.9	1,857.2	1,106.4	1,056.8	983.6	1,131.8	1,127.5	1,006.2	1,408.7
Science and Technology Directorate	NA	908.4	1,258.0	1,823.0	1,084.0	1,036.0	962.0	1,106.0	1,105.0	963.0	1,387.0
Transportation Security Administration	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	16.0	14.4	21.5	17.8	20.1	21.6	25.8	22.5	43.2	21.7
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	72.9	93.8	84.0
Department of the Interior	600.3	612.5	597.0	608.5	624.7	645.3	738.8	728.0	716.5	737.6	796.5
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	37.7	39.0
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	28.8	29.8	29.9	32.1	27.6	35.2	37.6	46.1	52.3	na	na
Bureau of Reclamation	11.0	16.3	17.3	11.1	15.5	15.2	13.1	13.3	15.1	12.0	12.0
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	12.4	19.0
National Park Service	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	0.0	0.0
U.S. Geological Survey	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	675.5	726.5
Department of Justice	148.2	105.3	127.5	127.9	184.4	114.5	103.4	125.4	102.3	66.4	20.4
Bureau of Prisons	9.7	10.8	12.7	12.2	12.7	10.6	10.5	10.8	11.6	11.2	11.4
Federal Bureau of Investigation	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	9.0	9.0
Office of Justice Programs	95.7	60.5	81.3	81.5	100.9	77.8	78.4	84.6	72.9	46.2	0.0

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of Labor	189.1	199.4	164.4	95.3	49.6	42.5	31.4	14.3	55.6	15.6	15.8
Bureau of Labor Statistics	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	8.9	9.0
Employment and Training Administration	160.0	170.0	133.7	64.1	18.8	10.7	22.4	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	4.0	4.1
Office of the Secretary	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.7
Department of State	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	2.0
Department of Transportation	711.8	647.0	436.7	838.0	811.0	825.2	846.2	929.2	861.8	1,002.8	978.8
Federal Aviation Administration	262.6	234.2	243.7	277.0	259.8	274.3	316.1	408.7	347.2	399.1	360.2
Federal Highway Administration	305.2	323.4	73.9	400.1	404.7	377.3	347.8	336.8	344.1	382.0	388.9
Federal Motor Carrier Safety Administration	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.0	6.9
Federal Railroad Administration	33.1	29.9	31.8	49.0	39.6	39.4	41.7	43.8	47.1	95.5	45.3
Federal Transit Administration	7.1	4.6	4.2	16.6	6.0	9.5	10.4	22.6	23.8	6.8	34.2
National Highway Traffic Safety Administration	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	72.0	111.0
Office of the Secretary	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	15.6	10.0
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.0	7.9	18.3	16.5
Research and Innovative Technology Administration	na	0.0	1.5	2.5	2.7	10.7	11.1	6.0	5.1	6.6	5.8
Research and Special Programs Administration	10.6	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	60.0	62.4	66.4	68.8	65.2	65.5	68.6	68.5	77.6	75.1	78.4
Bureau of Engraving and Printing	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	4.8	9.5
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	0.7	1.0	2.4	7.4	5.1	0.6	0.8	1.1	1.0	1.3	0.0
Department of Veterans Affairs	365.7	405.6	402.3	412.0	446.5	480.0	510.0	563.0	612.9	607.8	592.7
Other agencies											
Agency for International Development	286.0	264.8	257.5	255.0	234.5	123.8	160.1	84.3	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.0	0.2	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	567.1	661.9	641.4	621.5	576.0	532.0	552.8	572.3	581.7	567.5	575.6
Federal Communications Commission	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.3	1.4
National Aeronautics and Space Administration	9,158.2	8,654.1	8,928.5	7,250.0	6,205.8	5,847.1	5,957.6	8,691.3	8,429.0	8,713.9	9,239.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0
National Science Foundation	3,943.8	4,166.0	4,098.3	4,239.5	4,406.9	4,506.4	6,924.8	6,073.4	5,536.6	5,614.3	5,872.0

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Regulatory Commission	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	68.8	80.8
Smithsonian Institution	107.0	110.8	115.1	146.4	186.0	188.0	226.7	213.0	248.7	232.9	233.5
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 115. Federal obligations for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8	72,100.7	75,340.6	75,910.3	84,492.5	93,708.6
Departments											
Department of Agriculture	1,327.1	1,327.8	1,399.9	1,380.2	1,300.3	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2
Agricultural Research Service	627.1	627.2	678.7	683.3	675.2	687.6	757.9	855.1	884.7	994.4	1,059.8
Animal and Plant Health Inspection Service	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7
Economic Research Service	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	0.0
Foreign Agricultural Service	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	180.7	182.7	193.1	193.5	177.9	179.8	187.8	197.0	223.0	237.0	253.0
Grain Inspection, Packers, and Stockyards Administration	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0
Human Nutrition Information Service	10.7	8.4	7.0	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6
National Institute of Food and Agriculture[a]	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7
Office of International Cooperation and Development	1.5	1.5	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	651.2	656.3	826.1	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6	997.9	1,151.4
Economic Development Administration	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5
National Institute of Standards and Technology	179.0	207.2	253.2	563.3	516.5	460.4	394.4	402.2	404.2	422.0	451.4
National Oceanic and Atmospheric Administration	462.4	439.5	562.6	560.9	528.5	509.3	519.5	547.2	597.1	501.0	651.3
National Telecommunications and Information Administration	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6
Office of the Secretary	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7
Department of Defense	36,129.5	35,849.1	34,553.2	33,796.3	34,535.4	34,788.3	35,286.2	35,645.9	36,214.0	39,981.9	45,412.7
Defense agencies and activities	7,571.7	7,647.0	7,279.7	7,363.2	7,733.8	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1	12,075.6
Department of the Air Force	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1	13,951.5	13,839.1	14,022.3	14,102.0	14,552.0	14,740.0
Department of the Army	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6
Department of the Navy	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0
Operational Test and Evaluation, Director	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5
Test and Evaluation, Deputy Under Secretary of Defense	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na
Department of Education	168.5	177.7	176.6	177.6	173.7	181.2	204.5	223.7	247.3	277.6	285.6
Department of Energy	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	739.8
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	363.3
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	3,302.4

TABLE 115. Federal obligations for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	2,372.7
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	27.4
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	637.0
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	265.4
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.5
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,345.1
Department of Health and Human Services	8,987.8	10,349.2	11,021.5	11,455.2	11,951.1	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6
Administration for Children and Families	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3
Administration on Aging	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7
Agency for Healthcare Research and Quality	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0
Food and Drug Administration	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3
Health Resources and Services Administration	10.1	9.6	16.4	13.2	11.1	13.1	12.9	12.8	35.6	51.0	54.1
National Institutes of Health	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1
Office of the Assistant Secretary for Health	6.7	1.2	0.8	0.3	na	na	na	na	na	na	na
Office of the Secretary	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4
Office of Public Health and Science	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9
Social Security Administration	33.0	24.5	22.2	20.4	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6
Department of Housing and Urban Development	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3
Department of the Interior	609.2	619.1	694.1	561.6	567.5	579.9	532.0	641.5	579.9	619.7	632.8
Bureau of Land Management	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	107.1	111.9	107.9	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2
Bureau of Reclamation	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4
National Biological Service	na	0.0	162.8	151.8	na	na	na	na	na	na	na
National Park Service	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2
Office of Surface Mining, Reclamation, and Enforcement	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	85.1	86.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	361.4	356.7	371.1	362.0	518.9	526.3	464.1	579.1	506.1	572.6	565.0
Department of Justice	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2
Bureau of Prisons	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7
Drug Enforcement Administration	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6

TABLE 115. Federal obligations for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0
Office of Justice Programs	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9
Department of Labor	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4
Bureau of Labor Statistics	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7
Employment and Training Administration	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1
Occupational Safety and Health Administration	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8
Office of the Secretary	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2
Pension Benefit Guaranty Corp.	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7
Department of State	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3
Department of Transportation	445.0	545.3	620.7	727.0	552.5	526.9	566.1	667.0	467.4	674.4	815.5
Federal Aviation Administration	236.2	248.9	285.6	288.4	208.3	209.1	228.0	205.3	219.0	286.9	345.1
Federal Highway Administration	130.2	174.9	235.7	312.5	240.0	210.3	227.3	333.2	126.7	240.8	258.3
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	3.9	11.4	3.7
Federal Railroad Administration	22.7	25.2	19.5	26.5	26.7	18.9	21.5	20.9	27.3	24.1	33.2
Federal Transit Administration	1.7	24.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8
Maritime Administration	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6
Office of the Secretary	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4
Research and Special Programs Administration	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	59.0
U.S. Coast Guard	20.1	32.9	22.3	19.7	20.0	22.9	20.4	20.3	20.0	23.5	22.0
Department of the Treasury	24.6	16.6	19.0	61.4	60.0	59.7	65.1	64.7	61.4	67.7	74.4
Bureau of Engraving and Printing	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1
Financial Crimes Enforcement Network	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	4.0	10.6
U.S. Mint	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3
U.S. Secret Service	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	223.9	236.2	248.0	237.9	256.1	252.7	277.1	339.1	341.7	345.0	328.8
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	365.9	382.2	254.3	302.5	223.0	206.4	212.0	na	218.8	267.0	269.8
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	0.1	*	0.3
Consumer Product Safety Commission	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0
Environmental Protection Agency	483.9	495.3	553.5	551.5	464.3	492.2	571.2	552.8	502.2	450.5	415.2
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4

TABLE 115. Federal obligations for research and development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8
Library of Congress	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0
National Aeronautics and Space Administration	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2
National Archives and Records Administration	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0
Nuclear Regulatory Commission	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3
Smithsonian Institution	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8
Tennessee Valley Authority	97.3	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0	0.0
U.S. Information Agency	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 116. Federal obligations for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	103,527.3	112,074.5	118,847.9	121,729.9	127,262.9	127,105.7	141,090.1	140,354.5	135,490.8	134,785.7	136,471.6
Departments											
Department of Agriculture	2,039.6	2,102.2	2,184.3	2,213.7	2,248.4	2,202.1	2,267.2	2,364.2	2,341.3	2,460.1	2,269.2
Agricultural Marketing Service	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.3
Agricultural Research Service	1,062.0	1,098.1	1,107.7	1,134.9	1,142.0	1,122.6	1,141.2	1,178.3	1,133.0	1,101.5	1,102.6
Animal and Plant Health Inspection Service	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	39.0	37.0
Economic Research Service	68.4	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.7	77.4
Foreign Agricultural Service	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.6
Forest Service	292.0	296.0	300.7	308.1	320.3	295.0	344.1	356.5	353.5	366.0	321.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4
National Institute of Food and Agriculture[a]	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	854.0	707.8
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	3.3	3.3
Department of Commerce	1,208.0	1,058.9	1,033.4	941.7	1,027.7	1,044.7	1,146.9	1,274.4	1,067.1	1,069.8	1,868.2
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	5.2	0.0
National Institute of Standards and Technology	476.0	444.2	418.7	385.7	456.5	430.0	500.5	687.4	506.9	512.1	1,171.0
National Oceanic and Atmospheric Administration	685.4	566.3	583.8	526.9	540.7	580.8	607.5	525.4	492.3	443.5	507.6
National Telecommunications and Information Administration	23.5	24.2	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.5	6.7
U.S. Census Bureau	22.5	24.2	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.5	182.9
Department of Defense	51,897.1	57,792.9	63,387.7	65,870.7	72,211.2	71,833.3	75,856.5	73,471.1	75,157.3	74,504.3	73,724.6
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	2,846.4	2,884.3	2,817.0
Defense agencies and activities[b]	12,502.9	13,067.5	15,324.5	14,303.7	15,903.7	15,905.6	16,240.9	16,264.5	na	na	na
Department of the Air Force	18,259.0	20,319.0	19,971.0	21,687.9	25,264.0	25,232.3	27,950.3	26,521.4	26,500.1	28,507.7	29,381.5
Department of the Army	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,049.3	8,712.1
Department of the Navy	13,290.0	14,885.2	17,576.4	18,381.9	19,233.0	18,633.0	19,570.6	19,635.0	17,792.4	18,365.4	16,846.3
Operational Test and Evaluation, Director[b]	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	18,186.7	15,697.5	15,967.7
Department of Education	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.1	344.5	383.9
Department of Energy	7,411.9	7,553.8	7,733.4	7,562.0	7,877.4	8,238.8	9,889.9	10,685.5	9,945.8	9,591.6	10,683.0
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	377.8	174.9	110.9	194.0
Bonneville Power Administration	23.3	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3	16.2
Civilian Radioactive Waste Management	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	80.3	133.5	92.5	82.7	87.2	113.3	88.8	53.5	96.4
Energy Efficiency and Renewable Energy	682.3	583.9	557.3	430.6	661.6	729.1	1,583.7	1,895.2	863.2	986.1	1,392.0
Environmental Management	69.4	42.8	49.8	34.0	18.7	19.4	30.2	89.8	67.5	20.5	20.0
Fossil Energy	639.3	526.1	566.4	435.7	418.6	403.9	485.8	484.8	410.6	296.5	276.0
National Nuclear Security Administration	3,475.4	3,600.2	3,618.8	3,557.3	3,590.9	3,718.2	3,547.7	3,448.4	4,036.3	4,109.7	4,380.9
Defense Programs	2,576.7	2,727.4	2,732.9	2,593.6	2,655.9	2,707.4	2,476.2	2,247.4	2,771.0	2,762.3	3,025.6
Fissile Materials Disposition	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 116. Federal obligations for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Naval Reactors	650.0	708.6	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,031.1	1,039.0
Nonproliferation and Verification	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	323.5	316.2	316.2
Nuclear Energy	47.1	74.3	84.5	89.0	80.9	133.1	116.0	368.1	387.8	263.6	314.4
Office of Intelligence	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,735.4	3,993.1
Department of Health and Human Services	26,399.1	28,133.2	28,745.5	28,765.6	29,301.5	29,553.3	35,584.0	35,934.5	30,848.8	30,915.9	30,853.0
Administration for Children and Families	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	9.8	10.0
Administration on Aging	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	308.7	303.7	318.7	318.7	318.9	334.4	378.1	852.5	370.7	369.1	334.4
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	544.6	544.3	538.2	420.3	446.9	385.9	341.1	263.5
Ctrs. for Medicare and Medicaid Services	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.2	24.6
Food and Drug Administration	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	217.7	258.7
Health Resources and Services Administration	43.2	47.4	52.9	23.6	23.2	62.1	56.3	66.3	36.8	37.2	37.3
National Institutes of Health	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,895.4	29,901.3
Office of the Secretary	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of Public Health and Science	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Substance Abuse and Mental Health Services Administration	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	NA	946.0	1,362.2	1,725.4	862.9	837.2	672.5	674.1	559.1	510.7	695.5
Science and Technology Directorate	NA	792.2	1,167.3	1,691.6	841.0	816.9	652.4	649.4	537.8	468.7	675.0
Transportation Security Administration	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	15.0	13.4	21.2	17.2	19.6	20.1	24.7	21.3	42.0	20.5
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	72.9	93.8	84.0
Department of the Interior	596.7	604.6	589.5	603.0	615.1	636.2	732.4	721.7	706.0	732.9	791.8
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	37.7	39.0
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na
Bureau of Reclamation	9.5	10.9	12.7	8.8	8.5	8.9	8.5	9.7	11.5	10.0	10.0
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	9.7	16.4
National Park Service	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	0.0	0.0
U.S. Geological Survey	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	675.5	726.5
Department of Justice	148.2	105.3	127.5	127.9	176.2	113.4	103.4	125.4	102.3	66.4	20.4
Bureau of Prisons	9.7	10.8	12.7	12.2	12.7	10.6	10.5	10.8	11.6	11.2	11.4
Federal Bureau of Investigation	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	9.0	9.0
Office of Justice Programs	95.7	60.5	81.3	81.5	92.7	76.8	78.4	84.6	72.9	46.2	0.0

TABLE 116. Federal obligations for research and development, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of Labor	189.1	199.4	164.4	95.3	49.6	42.5	31.4	14.3	55.6	15.6	15.8
Bureau of Labor Statistics	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	8.9	9.0
Employment and Training Administration	160.0	170.0	133.7	64.1	18.8	10.7	22.4	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	4.0	4.1
Office of the Secretary	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.7
Department of State	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	2.0
Department of Transportation	693.3	629.3	418.4	819.2	791.2	806.1	826.0	908.1	841.4	972.3	954.1
Federal Aviation Administration	245.0	217.8	226.6	260.0	241.9	257.1	297.7	390.4	329.6	371.5	338.6
Federal Highway Administration	305.2	323.4	73.9	400.1	404.7	377.3	347.8	336.8	344.1	382.0	388.9
Federal Motor Carrier Safety Administration	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.0	6.9
Federal Railroad Administration	32.2	28.6	30.7	47.2	37.7	37.5	39.8	41.1	44.4	92.6	42.3
Federal Transit Administration	7.1	4.6	4.2	16.6	6.0	9.5	10.4	22.6	23.8	6.8	34.2
National Highway Traffic Safety Administration	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	72.0	111.0
Office of the Secretary	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	15.6	10.0
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.0	7.9	18.3	16.5
Research and Innovative Technology Administration	na	0.0	1.5	2.5	2.7	10.7	11.1	6.0	5.1	6.6	5.8
Research and Special Programs Administration	10.6	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	60.0	62.4	66.4	65.1	63.6	65.5	68.6	68.5	77.6	75.1	78.4
Bureau of Engraving and Printing	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	4.8	9.5
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	0.7	1.0	2.4	3.7	3.5	0.6	0.8	1.1	1.0	1.3	0.0
Department of Veterans Affairs	365.4	405.2	402.0	411.6	446.1	479.6	510.0	563.0	612.9	607.8	592.7
Other agencies											
Agency for International Development	286.0	264.8	257.5	255.0	234.5	123.8	160.1	84.3	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.0	0.2	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	567.1	661.9	641.4	621.5	576.0	532.0	552.8	572.3	577.0	562.8	570.9
Federal Communications Commission	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.3	1.4
National Aeronautics and Space Administration	7,499.0	7,182.5	7,394.8	7,211.0	6,126.2	5,827.5	5,937.0	7,121.3	6,570.5	6,611.5	6,972.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0
National Science Foundation	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,177.0	5,423.4

TABLE 116. Federal obligations for research and development, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Regulatory Commission	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	68.8	80.8
Smithsonian Institution	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	193.5	199.0
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 117. Federal obligations for R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	2,984.6	3,100.7	2,215.4	2,256.1	1,746.1	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7
Departments											
Department of Agriculture	164.7	142.4	125.7	143.4	128.4	184.2	89.8	131.1	86.6	117.0	118.8
Agricultural Research Service	98.1	78.3	78.3	67.7	67.9	118.9	86.3	118.5	74.6	104.0	103.8
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	3.6	3.6	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0
National Institute of Food and Agriculture[a]	63.0	60.5	42.6	71.3	56.5	63.2	0.9	0.6	0.0	0.0	0.0
Department of Commerce	21.0	25.4	31.2	77.7	84.5	43.4	21.4	19.6	200.5	23.8	29.1
National Institute of Standards and Technology	11.2	12.6	30.9	77.2	84.5	21.8	21.4	19.6	200.5	23.8	29.1
National Oceanic and Atmospheric Administration	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0
Department of Defense	396.5	371.5	265.7	60.5	46.8	85.5	65.8	107.6	48.2	147.4	365.1
Defense agencies and activities	98.8	76.3	88.2	5.9	8.3	5.3	1.1	20.2	5.1	4.7	284.1
Department of the Air Force	179.7	231.6	99.3	37.8	24.4	39.1	26.2	47.2	5.5	31.9	23.5
Department of the Army	22.0	18.1	2.1	5.5	6.2	4.1	3.9	4.6	0.1	0.0	0.0
Department of the Navy	96.0	45.5	76.1	11.3	8.0	37.0	34.6	35.6	37.5	110.7	57.5
Department of Education	2.4	2.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,320.8	1,461.5	911.8	745.1	705.9	729.3	727.1	866.2	810.8	983.4	1,028.0
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	4.9
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	425.8
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	397.3
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	*
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	28.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	587.1
Department of Health and Human Services	96.7	149.3	120.2	255.7	133.1	260.1	286.3	252.8	219.6	300.0	247.5
Food and Drug Administration	14.3	19.7	8.4	5.3	5.5	14.5	28.1	2.6	2.5	8.8	13.4
Health Resources and Services Administration	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6
National Institutes of Health	82.1	128.2	110.5	248.8	126.9	244.9	257.3	249.6	216.5	290.6	233.4
Social Security Administration	0.0	0.0	0.0	0.0	na	na	na	na	na	na	na
Department of the Interior	18.4	23.1	9.0	6.7	1.9	7.2	1.5	1.4	1.3	2.4	2.1
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	1.0	1.1	1.2	1.0	0.8	2.2	1.5	1.4	1.3	2.4	2.1
National Biological Service	na	0.0	1.4	0.3	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	13.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	4.3	3.8	6.4	5.4	1.2	5.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	25.3	32.3	40.9	28.8	31.8	19.0	17.6	14.6	11.9	16.0	51.7
Federal Aviation Administration	24.0	22.4	33.0	21.7	20.6	17.2	14.3	14.3	11.5	13.7	14.5
Federal Highway Administration	0.8	0.9	6.3	3.0	7.3	0.9	2.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.1	1.6	1.1	3.5	3.4	0.6	1.1	*	0.1	2.1	0.9
Federal Transit Administration	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	36.0

TABLE 117. Federal obligations for R&D plant, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
U.S. Coast Guard	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Department of the Treasury	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
U.S. Secret Service	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	5.7	3.4	11.7	7.2	3.8	31.3	0.4	0.3	0.3	0.4	0.4
Other agencies											
Environmental Protection Agency	0.0	2.5	4.8	4.8	0.0	25.0	66.0	116.0	21.0	22.0	0.0
General Services Administration	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0
National Aeronautics and Space Administration	817.8	749.4	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3
National Science Foundation	101.6	130.4	171.9	289.6	187.2	203.8	184.3	173.5	216.6	285.2	240.8
Smithsonian Institution	3.8	5.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0
Tennessee Valley Authority	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 118. Federal obligations for R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	4,266.5	3,994.2	3,771.1	2,124.8	2,168.4	1,943.9	3,668.0	6,613.3	4,170.7	4,373.1	4,704.7
Departments											
Department of Agriculture	96.4	179.4	134.2	172.6	123.9	43.9	77.5	251.2	35.5	15.7	9.0
Agricultural Research Service	81.2	160.5	119.1	159.1	98.9	23.0	46.0	181.3	18.6	7.0	2.0
Forest Service	15.2	18.9	15.2	13.5	25.0	20.9	31.5	69.8	17.0	8.7	7.0
Department of Commerce	59.1	89.7	60.8	74.6	117.7	151.6	386.4	408.8	241.7	232.8	203.1
Economic Development Administration	NA	NA	NA	NA	NA	18.5	25.4	12.1	14.9	27.0	0.0
National Institute of Standards and Technology	49.1	37.4	44.3	43.3	51.5	86.9	105.3	237.3	90.1	68.7	60.0
National Oceanic and Atmospheric Administration	10.0	52.3	16.5	31.3	66.2	46.2	255.8	159.3	136.7	137.1	143.1
Department of Defense	251.4	274.7	272.8	63.3	79.3	163.4	117.2	152.8	170.3	125.5	124.1
Defense agencies and activities[a]	137.9	121.1	82.1	34.8	36.3	41.1	0.9	0.3	na	na	na
Department of the Air Force	6.8	19.5	107.0	11.3	28.0	106.6	101.0	127.2	141.4	104.8	100.7
Department of the Navy	106.6	134.1	83.7	17.2	15.1	15.6	15.3	25.3	21.5	20.8	22.3
Other defense agencies[a, b]	NA	NA	NA	NA	NA	NA	NA	NA	7.4	0.0	1.0
Department of Energy	1,024.1	1,006.8	863.3	778.2	752.4	751.6	1,672.3	959.3	734.6	742.2	726.3
Energy Efficiency and Renewable Energy	6.2	19.8	19.4	26.1	107.0	64.9	207.1	102.9	39.3	0.0	0.0
Fossil Energy	4.5	6.2	6.3	19.4	12.0	13.1	19.0	19.0	19.0	16.0	12.6
National Nuclear Security Administration	447.9	436.1	303.1	304.6	191.9	263.1	168.3	190.0	128.0	162.7	160.7
Defense Programs	419.9	407.8	268.4	271.6	171.0	232.0	132.0	159.2	95.5	122.8	111.1
Fissile Materials Disposition	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	28.0	28.4	34.7	33.0	20.9	31.1	36.3	30.8	32.5	39.9	49.6
Office of Science	565.5	544.7	534.4	428.1	441.5	410.5	1,277.9	647.4	548.3	563.6	553.0
Department of Health and Human Services	815.7	430.6	427.0	360.9	254.6	147.4	151.9	1,682.4	79.2	142.4	144.5
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	7.2	8.5	0.7	3.9	8.4	5.1	4.8	12.6	8.5	8.5	10.6
Health Resources and Services Administration	0.3	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
National Institutes of Health	808.2	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	133.2
Department of Homeland Security	NA	117.2	91.7	131.8	243.6	219.6	311.1	457.7	568.5	495.6	713.2
Science and Technology Directorate	NA	116.3	90.7	131.4	243.0	219.1	309.6	456.6	567.2	494.3	712.0
U.S. Coast Guard	NA	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.3	1.3
Department of the Interior	3.6	7.9	7.5	5.5	9.6	9.1	6.4	6.3	10.5	4.7	4.7
Bureau of Ocean Energy Management, Regulation and Enforcement[c, d]	2.1	2.6	2.9	3.2	2.6	2.8	1.9	2.7	6.9	na	na
Bureau of Reclamation	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	2.1
Bureau of Safety and Environmental Enforcement[c]	na	na	na	na	na	na	na	na	na	2.6	2.6
Department of Justice	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	18.5	17.7	18.3	18.7	19.8	19.1	20.3	21.1	20.4	30.4	24.7
Federal Aviation Administration	17.6	16.4	17.2	16.9	17.9	17.2	18.4	18.4	17.7	27.6	21.7

TABLE 118. Federal obligations for R&D plant, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Federal Railroad Administration	0.9	1.3	1.1	1.8	1.9	1.9	1.9	2.7	2.7	2.9	3.0
Department of the Treasury	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
National Aeronautics and Space Administration	1,659.2	1,471.6	1,533.7	39.0	79.6	19.7	20.6	1,570.1	1,858.5	2,102.4	2,267.4
National Science Foundation	335.2	395.4	355.5	448.9	436.8	371.1	829.6	1,057.7	391.0	437.3	448.7
Smithsonian Institution	3.0	2.8	6.1	27.4	41.0	46.0	74.7	46.0	55.7	39.4	34.6

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

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SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 119. Federal obligations for research, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7
Departments											
Department of Agriculture	1,261.0	1,251.7	1,322.5	1,298.8	1,220.0	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4
Agricultural Research Service	583.2	574.3	624.4	628.6	621.2	625.7	689.7	778.1	805.1	904.9	964.4
Economic Research Service	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	2.2	0.0
Foreign Agricultural Service	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Forest Service	175.8	177.2	189.8	187.7	172.3	165.9	172.3	169.4	191.8	203.8	217.6
Grain Inspection, Packers, and Stockyards Administration	1.5	1.8	1.8	0.3	0.5	0.6	0.5	2.7	0.7	0.0	0.0
Human Nutrition Information Service	10.7	8.4	7.0	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6
National Institute of Food and Agriculture[a]	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7
Office of International Cooperation and Development	1.5	1.5	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	595.9	582.1	718.3	892.3	850.6	808.1	807.0	848.0	895.9	828.3	994.5
Economic Development Administration	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5
National Institute of Standards and Technology	149.4	172.9	207.3	372.1	354.8	331.5	305.4	309.0	308.6	336.8	354.6
National Oceanic and Atmospheric Administration	438.7	401.7	502.7	510.4	480.8	468.8	492.1	528.8	578.5	478.9	629.3
National Telecommunications and Information Administration	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1
Office of the Secretary	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	3.4	3.3	2.8	2.9	2.5	3.4	5.2	5.9	4.3	7.9	6.0
Department of Defense	4,073.4	4,783.5	4,240.6	4,198.4	3,995.5	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4
Defense agencies and activities	1,457.3	1,881.0	1,726.6	1,632.0	1,549.3	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5
Department of the Air Force	790.5	887.8	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4
Department of the Army	932.7	1,018.6	852.6	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0	1,111.5
Department of the Navy	892.8	996.1	847.1	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0	1,142.9
Department of Education	127.0	133.6	136.8	138.4	135.5	138.1	148.7	148.6	163.5	183.2	183.6
Department of Energy	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.3
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	293.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	86.9
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	145.0
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	2,072.6
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	1,893.9
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	178.7
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.5

TABLE 119. Federal obligations for research, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,345.1
Department of Health and Human Services	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9
Administration for Children and Families	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3
Administration on Aging	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7
Agency for Healthcare Research and Quality	97.8	105.6	142.0	124.0	116.0	134.1	138.8	171.3	186.8	248.1	274.8
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0
Food and Drug Administration	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3
Health Resources and Services Administration	10.1	9.6	10.6	12.2	11.1	13.1	12.9	12.8	35.6	16.1	17.3
National Institutes of Health	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1
Office of the Assistant Secretary for Health	6.0	0.0	0.0	0.0	na	na	na	na	na	na	na
Office of the Secretary	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	14.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9
Social Security Administration	33.0	24.5	22.2	20.4	na	na	na	na	na	na	na
Department of Housing and Urban Development	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2
Department of the Interior	570.6	580.1	650.2	532.4	542.1	552.7	502.9	610.0	548.5	572.8	557.4
Bureau of Land Management	5.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	102.9	105.0	95.4	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2
Bureau of Reclamation	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6
National Biological Service	na	0.0	149.0	138.8	na	na	na	na	na	na	na
National Park Service	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	10.0	17.6
Office of Surface Mining, Reclamation, and Enforcement	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	71.2	71.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	344.5	343.9	355.4	347.9	495.1	500.7	437.2	550.2	477.1	531.1	504.9
Department of Justice	20.3	25.6	25.9	25.8	32.0	32.5	42.0	54.0	49.6	61.8	49.2
Bureau of Prisons	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6
Drug Enforcement Administration	0.1	*	0.1	0.0	*	*	0.0	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	17.3	22.7	23.3	22.2	28.7	30.2	37.7	46.6	46.1	53.3	45.5
Department of Labor	23.8	19.0	19.6	29.9	26.7	21.7	22.1	27.7	46.1	57.1	45.5
Bureau of Labor Statistics	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7
Employment and Training Administration	5.6	3.5	3.1	4.2	2.6	1.5	2.2	8.8	25.0	25.0	17.8
Occupational Safety and Health Administration	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8
Office of the Secretary	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3
Pension Benefit Guaranty Corp.	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 119. Federal obligations for research, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Department of State	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3
Department of Transportation	156.9	226.1	273.4	370.7	375.2	381.2	401.0	476.7	344.4	445.7	530.9
Federal Aviation Administration	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8
Federal Highway Administration	73.2	91.7	134.2	203.1	173.9	149.2	169.6	247.8	92.9	158.3	138.6
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	2.8	8.0	0.2
Federal Railroad Administration	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7
Federal Transit Administration	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6
Maritime Administration	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6
Office of the Secretary	0.7	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Special Programs Administration	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	47.2
U.S. Coast Guard	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4
Department of the Treasury	20.8	11.1	9.2	48.9	50.5	50.9	52.6	50.7	51.2	63.2	61.8
Bureau of Engraving and Printing	1.8	3.2	1.6	1.3	1.6	1.6	2.7	2.0	2.7	4.7	5.3
Internal Revenue Service	17.5	6.5	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*
U.S. Secret Service	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	200.9	207.4	223.5	218.8	235.3	231.0	269.1	332.3	334.6	338.1	314.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	300.1	359.2	216.2	272.7	205.0	176.7	172.9	163.8	189.2	239.2	247.6
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*	0.3
Consumer Product Safety Commission	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Environmental Protection Agency	404.3	361.5	402.3	401.6	380.8	409.1	477.2	457.0	410.7	350.7	323.7
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8
Library of Congress	1.8	1.8	1.9	2.1	2.2	0.5	0.5	0.5	0.6	2.0	1.7
National Aeronautics and Space Administration	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5
National Archives and Records Administration	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0
Nuclear Regulatory Commission	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3
Smithsonian Institution	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8
Tennessee Valley Authority	24.4	27.9	25.9	26.4	4.2	4.0	0.8	0.0	0.0	0.0	0.0

TABLE 119. Federal obligations for research, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0	0.0
U.S. Information Agency	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 120. Federal obligations for research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	58,049.8	59,969.2
Departments											
Department of Agriculture	1,869.1	1,918.8	2,002.8	2,030.5	2,067.7	2,019.5	2,075.5	2,141.0	2,125.4	2,246.5	2,064.6
Agricultural Marketing Service	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.6
Agricultural Research Service	966.4	988.3	997.0	1,021.4	1,027.8	1,010.3	1,027.1	1,060.5	1,019.7	991.3	992.3
Economic Research Service	68.4	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.7	77.4
Foreign Agricultural Service	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.6	0.6
Forest Service	251.1	254.6	254.6	264.0	279.8	255.7	297.6	283.4	281.9	303.7	266.4
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4
National Institute of Food and Agriculture[a]	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	854.0	707.8
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	3.3	3.3
Department of Commerce	1,054.1	887.9	889.4	840.2	928.5	964.0	959.1	1,135.1	941.0	981.5	1,440.5
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	5.2	0.0
National Institute of Standards and Technology	381.0	359.7	357.6	355.5	415.3	406.8	479.3	653.3	473.0	496.2	852.9
National Oceanic and Atmospheric Administration	665.6	519.9	520.3	471.8	500.1	542.7	463.8	458.0	448.8	406.3	451.5
National Telecommunications and Information Administration	6.4	6.3	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.5	6.7
U.S. Census Bureau	0.6	1.8	4.2	6.0	5.3	5.3	6.2	9.4	10.8	66.3	129.4
Department of Defense	5,815.6	5,697.9	5,931.5	5,751.9	6,393.9	6,580.8	6,792.0	7,065.5	6,595.7	6,619.4	6,768.8
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	1,384.0	1,586.2	1,525.8
Defense agencies and activities[b]	2,212.1	1,878.6	1,752.0	1,740.6	1,866.7	2,030.8	2,206.9	2,443.5	na	na	na
Department of the Air Force	1,329.4	1,210.5	1,246.4	1,351.1	1,540.1	1,591.8	1,604.2	1,678.3	1,673.9	1,800.7	1,852.8
Department of the Army	1,117.5	1,471.1	1,700.2	1,452.6	1,721.3	1,631.1	1,667.0	1,675.2	1,478.5	1,332.1	1,314.3
Department of the Navy	1,156.6	1,137.7	1,232.9	1,207.6	1,265.8	1,327.2	1,313.9	1,268.5	1,295.4	1,364.1	1,395.3
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	763.9	536.2	680.6
Department of Education	201.6	210.8	214.0	215.6	211.5	204.1	202.6	225.2	213.0	210.4	231.7
Department of Energy	5,260.6	5,498.0	5,703.8	5,720.3	5,856.5	6,099.6	7,188.1	7,598.3	7,350.1	7,085.9	7,988.9
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	205.1	127.8	61.0	141.6
Bonneville Power Administration	14.7	15.4	8.9	9.8	8.7	11.2	7.3	11.8	5.3	6.1	14.6
Civilian Radioactive Waste Management	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	66.5	93.4	57.3	27.3	61.7	73.5	61.8	37.6	67.8
Energy Efficiency and Renewable Energy	310.5	266.9	271.8	211.3	342.9	429.1	653.4	911.7	467.5	441.2	739.0
Environmental Management	20.8	12.8	14.9	10.2	2.4	2.3	10.9	30.8	22.3	6.8	6.6
Fossil Energy	255.8	231.2	216.0	218.1	216.8	183.0	246.1	218.1	184.8	133.4	124.2
National Nuclear Security Administration	2,158.3	2,200.4	2,277.4	2,218.7	2,154.4	2,178.1	2,061.4	1,951.4	2,250.4	2,422.0	2,596.2
Defense Programs	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,317.5
Nonproliferation and Verification	148.5	94.6	84.0	142.5	126.0	211.0	265.6	241.1	275.6	278.6	278.6

TABLE 120. Federal obligations for research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Energy	29.4	69.4	83.2	87.5	71.0	130.1	116.0	300.9	326.8	242.3	305.9
Office of Science	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,735.4	3,993.1
Department of Health and Human Services	26,287.8	27,991.2	28,617.1	28,679.6	29,210.7	29,459.2	35,489.9	35,797.5	30,770.7	30,844.5	30,784.7
Administration for Children and Families	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	9.8	10.0
Administration on Aging	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	284.0	279.4	293.2	293.2	293.4	307.6	347.8	789.3	341.0	339.5	307.6
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.4	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	544.6	527.2	511.3	389.4	409.7	347.6	309.7	232.6
Ctrs. for Medicare and Medicaid Services	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.2	24.6
Food and Drug Administration	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	217.7	258.7
Health Resources and Services Administration	16.5	16.9	17.6	17.3	16.8	21.7	23.4	29.6	26.7	26.7	26.7
National Institutes of Health	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,895.4	29,901.3
Office of the Secretary	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Department of Homeland Security	NA	413.4	597.2	606.2	541.8	325.4	347.2	321.5	248.1	223.3	309.4
Science and Technology Directorate	NA	284.5	411.0	595.6	535.8	318.1	340.5	313.9	241.0	210.0	302.5
Transportation Security Administration	NA	122.8	180.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	5.1	4.6	7.1	5.2	6.6	6.7	7.6	7.1	13.3	6.8
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	48.8	64.6	57.1
Department of the Interior	533.5	546.6	531.3	551.1	553.7	566.1	657.6	644.0	629.5	617.7	670.9
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	37.7	39.0
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na
Bureau of Reclamation	3.3	3.8	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	7.3	13.1
National Park Service	6.5	11.5	3.2	3.7	7.0	6.6	11.3	6.4	8.3	0.0	0.0
U.S. Geological Survey	497.0	504.1	496.6	515.5	518.7	524.0	607.6	586.9	567.2	565.2	611.4
Department of Justice	56.6	47.1	57.6	53.0	62.5	77.5	80.9	87.5	84.5	56.8	10.7
Bureau of Prisons	4.8	5.0	4.4	2.7	4.2	3.0	2.8	2.8	3.5	3.3	3.4
Federal Bureau of Investigation	NA	NA	NA	NA	NA	NA	NA	0.0	8.1	7.3	7.3
Office of Justice Programs	51.9	42.1	53.3	50.2	58.3	74.5	78.1	84.6	72.9	46.2	0.0
Department of Labor	36.3	37.5	36.0	30.1	48.0	40.9	29.2	11.9	53.0	13.0	13.3
Bureau of Labor Statistics	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	8.9	9.0
Employment and Training Administration	9.0	9.0	6.7	0.7	18.8	10.7	22.4	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	4.0	4.1
Office of the Secretary	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TABLE 120. Federal obligations for research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of State	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	2.0
Department of Transportation	432.9	360.2	254.6	535.2	589.5	634.1	586.7	645.9	637.0	675.0	726.3
Federal Aviation Administration	135.6	118.3	128.3	136.6	128.2	140.4	162.9	236.6	210.1	230.8	223.1
Federal Highway Administration	192.8	201.9	51.7	288.4	348.3	347.3	316.8	295.9	299.8	330.7	337.9
Federal Motor Carrier Safety Administration	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.6	6.5
Federal Railroad Administration	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.7	20.3	18.9	10.6
Federal Transit Administration	0.0	*	0.3	3.6	2.8	3.6	4.2	20.0	23.3	6.1	30.7
National Highway Traffic Safety Administration	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	72.0	111.0
Pipeline and Hazardous Materials Safety Administration	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.1	3.4	5.6	2.6
Research and Innovative Technology Administration	na	0.0	0.1	0.7	1.7	10.7	3.7	4.2	3.4	4.3	4.0
Research and Special Programs Administration	3.5	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	58.7	61.3	63.4	60.7	59.3	64.5	67.0	68.4	77.0	74.8	77.9
Bureau of Engraving and Printing	4.3	4.0	5.6	5.3	4.4	4.9	2.1	1.0	5.2	4.5	9.0
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	NA	NA	NA	NA	NA	0.0	0.0	1.1	1.0	1.3	0.0
Department of Veterans Affairs	349.6	383.9	382.7	391.9	424.7	456.6	477.3	529.0	575.4	570.6	556.4
Other agencies											
Agency for International Development	262.4	241.4	216.7	215.0	234.5	123.8	160.1	84.3	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.0	0.2	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	461.8	536.8	525.4	504.8	492.2	450.2	468.1	484.8	491.4	479.1	487.7
Federal Communications Commission	4.5	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	0.5	16.4	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.6	0.6
National Aeronautics and Space Administration	4,553.5	4,499.4	3,729.0	3,271.8	2,131.8	1,405.7	1,703.5	1,502.8	1,574.6	1,636.5	1,867.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0
National Science Foundation	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,177.0	5,423.4

TABLE 120. Federal obligations for research, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Regulatory Commission	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	68.8	80.8
Smithsonian Institution	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	193.5	199.0
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 121. Federal obligations for basic research, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3
Departments											
Department of Agriculture	595.2	615.9	606.3	595.0	550.0	590.1	603.8	743.3	807.9	903.1	930.1
Agricultural Research Service	326.1	341.0	366.5	369.0	364.6	364.4	401.7	461.7	477.7	546.9	582.9
Economic Research Service	8.2	10.6	9.9	5.4	5.3	5.3	7.2	6.2	6.4	6.6	6.7
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	0.0
Foreign Agricultural Service	0.0	0.0	0.7	0.5	0.9	0.9	0.9	0.9	0.8	0.8	0.8
Forest Service	68.9	69.4	33.3	32.9	29.3	28.4	29.3	80.8	91.4	97.2	103.7
National Agricultural Statistics Service	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.2	1.3	1.4	1.5
National Institute of Food and Agriculture[a]	189.6	192.5	194.7	186.0	148.7	189.9	163.5	189.6	229.9	249.9	234.4
Office of International Cooperation and Development	1.2	1.2	0.0	na	na	na	na	na	na	na	na
Department of Commerce	34.5	37.2	40.1	39.3	37.5	39.2	39.6	49.1	46.4	64.9	72.5
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
National Institute of Standards and Technology	33.6	36.5	39.8	38.9	36.7	38.2	38.6	42.0	40.3	53.5	56.1
National Oceanic and Atmospheric Administration	0.0	0.3	0.0	0.0	0.0	0.0	0.4	5.1	4.3	8.2	13.6
U.S. Census Bureau	0.9	0.4	0.3	0.3	0.9	1.1	0.6	2.0	1.8	3.3	2.8
Department of Defense	1,098.9	1,268.2	1,200.7	1,248.3	1,137.9	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5
Defense agencies and activities	294.4	411.8	344.9	413.3	338.2	309.2	334.3	311.9	417.1	870.9	899.2
Department of the Air Force	205.8	218.7	242.4	206.8	227.9	188.1	185.6	191.4	253.4	536.2	299.0
Department of the Army	204.9	215.7	213.3	218.8	195.1	178.3	182.0	181.1	205.3	208.4	224.6
Department of the Navy	393.8	422.0	400.1	409.4	376.7	347.2	329.0	355.8	354.3	393.9	389.7
Department of Education	7.5	5.3	5.5	5.5	3.5	3.0	2.1	2.0	2.1	2.3	5.3
Department of Energy	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	60.1
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.9
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	26.5
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	26.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,342.1
Department of Health and Human Services	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8
Agency for Healthcare Research and Quality	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Health Resources and Services Administration	1.3	1.1	0.8	1.0	1.0	1.1	1.1	1.2	1.2	2.2	2.1
National Institutes of Health	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8
Office of the Secretary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.9
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.9
Department of the Interior	230.9	230.3	83.2	55.2	56.0	56.4	48.7	59.1	51.8	61.8	45.8
Bureau of Land Management	0.6	0.6	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Bureau of Mines	43.7	44.6	25.4	0.0	na	na	na	na	na	na	na

TABLE 121. Federal obligations for basic research, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na	na	na
National Biological Service	na	0.0	13.7	13.0	na	na	na	na	na	na	na
National Park Service	0.0	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.6	5.0
U.S. Fish and Wildlife Service	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	180.1	178.0	43.5	41.6	55.5	55.9	48.2	58.6	51.3	60.2	40.8
Department of Justice	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4
Office of Justice Programs	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4
Department of Labor	0.2	5.6	5.8	13.3	11.5	11.3	11.1	11.1	11.0	38.4	30.2
Bureau of Labor Statistics	0.0	5.4	5.6	13.3	11.5	11.3	11.1	11.1	11.0	13.4	12.4
Employment and Training Administration	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	25.0	17.8
Pension Benefit Guaranty Corp.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	36.3
Federal Highway Administration	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	17.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	18.9
Department of the Treasury	3.6	6.5	*	*	*	*	*	*	*	*	0.7
Bureau of Engraving and Printing	0.0	0.0	*	*	*	*	*	*	*	*	0.7
Internal Revenue Service	3.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	15.7	13.3	14.4	12.4	12.5	13.6	120.0	148.4	149.2	142.1	141.7
Other agencies											
Agency for International Development	5.8	8.4	1.8	2.3	2.0	0.1	1.8	0.1	0.1	0.1	0.1
Environmental Protection Agency	110.4	89.1	101.4	70.3	51.7	51.1	57.4	57.0	58.6	74.5	63.8
Library of Congress	0.4	0.3	0.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7
National Archives and Records Administration	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	1,741.5	1,743.8	1,870.7	1,973.3	2,007.4	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5
Smithsonian Institution	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0
Tennessee Valley Authority	2.1	9.9	8.9	9.0	0.3	0.0	*	*	*	NA	NA

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 122. Federal obligations for basic research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	29,426.2	30,065.7
Departments											
Department of Agriculture	961.6	919.9	953.7	945.8	937.5	883.4	930.2	982.2	963.3	1,006.7	935.8
Agricultural Research Service	584.1	538.0	542.8	556.1	559.6	550.1	570.6	589.1	566.5	550.7	551.3
Economic Research Service	6.8	7.1	7.4	7.5	8.6	4.4	8.0	1.9	7.6	7.0	7.0
Foreign Agricultural Service	0.9	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
Forest Service	119.7	121.4	121.4	125.9	87.9	82.7	105.4	99.2	89.9	97.1	85.1
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	6.7	6.6	6.5	6.3	6.7	6.3	6.9
National Agricultural Statistics Service	1.8	1.8	1.8	1.9	2.0	2.6	3.0	3.2	3.3	3.3	3.3
National Institute of Food and Agriculture[a]	248.2	251.2	279.9	254.2	272.5	237.0	236.6	282.4	289.1	342.1	282.0
Department of Commerce	65.9	47.9	59.0	72.8	102.8	110.9	138.3	202.3	165.5	176.7	202.0
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.9	1.6	5.5	0.4	1.5	0.0
National Institute of Standards and Technology	65.5	47.0	59.0	72.8	102.8	110.0	136.7	196.7	165.1	175.2	202.0
U.S. Census Bureau	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,396.1	1,416.2	1,399.5	1,304.2	1,527.2	1,616.4	1,730.3	1,853.5	1,885.4	1,971.3	2,091.8
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	254.2	347.1	346.7
Defense agencies and activities[b]	512.8	193.1	157.4	160.5	235.9	311.3	343.0	414.7	na	na	na
Department of the Air Force	238.2	319.2	369.6	350.6	422.3	399.9	432.1	475.7	470.7	506.4	518.4
Department of the Army	240.6	442.3	396.8	348.8	384.6	392.1	431.2	414.3	415.0	414.8	446.6
Department of the Navy	404.5	461.6	475.7	444.3	484.4	513.2	524.0	548.8	547.0	557.6	604.4
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	198.4	145.4	175.7
Department of Education	5.5	9.0	9.6	2.6	4.2	4.5	4.2	7.1	7.5	6.8	8.3
Department of Energy	2,446.9	2,662.6	2,746.5	2,834.6	3,007.6	3,180.4	4,061.0	3,969.5	3,961.7	3,810.3	4,074.1
Bonneville Power Administration	3.3	3.4	*	0.0	*	0.1	1.0	7.9	4.0	4.6	9.7
Electricity Delivery and Energy Reliability	na	na	na	na	na	0.0	0.0	7.3	6.4	10.1	18.2
Energy Efficiency and Renewable Energy	30.6	22.6	22.7	1.2	0.6	12.2	2.3	20.7	1.6	6.8	0.0
Fossil Energy	9.9	9.6	9.3	7.3	5.9	4.0	4.4	4.8	4.1	3.0	2.8
National Nuclear Security Administration	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	42.1	50.5	50.5
Nonproliferation and Verification	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	42.1	50.5	50.5
Office of Science	2,392.4	2,620.2	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,735.4	3,993.1
Department of Health and Human Services	14,102.5	14,766.5	15,786.1	15,539.6	15,772.2	16,030.8	18,772.2	18,649.7	16,066.3	16,095.2	16,018.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	138.6	122.3	108.7	85.4	64.8	58.4	39.2
Health Resources and Services Administration	2.5	2.1	2.5	2.6	2.4	2.5	2.4	2.4	2.6	2.6	2.6
National Institutes of Health	14,100.0	14,764.5	15,783.6	15,537.0	15,631.2	15,906.0	18,661.0	18,561.9	15,998.9	16,034.2	15,976.2
Department of Homeland Security	NA	166.5	55.1	79.8	56.7	245.7	101.3	100.3	113.8	99.1	142.8
Science and Technology Directorate	NA	85.1	55.1	79.8	56.7	245.6	101.3	100.3	113.8	99.1	142.8
Transportation Security Administration	NA	81.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Secret Service	NA	NA	NA	NA	NA	0.1	0.0	0.0	0.0	0.0	0.0

TABLE 122. Federal obligations for basic research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of the Interior	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	55.5	61.2
U.S. Geological Survey	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	55.5	61.2
Department of Justice	31.2	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	5.8	0.8
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
Office of Justice Programs	31.2	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	5.0	0.0
Department of Labor	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0	0.0
Bureau of Labor Statistics	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0	0.0
Department of Transportation	24.5	19.9	0.0	1.6	2.5	0.0	0.0	4.6	4.4	4.7	4.8
Federal Highway Administration	24.5	19.9	0.0	1.6	2.5	0.0	0.0	4.6	4.4	4.7	4.8
Department of the Treasury	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.2
Bureau of Engraving and Printing	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.2
Department of Veterans Affairs	164.0	174.7	176.9	181.1	196.2	211.0	203.3	232.0	250.6	248.5	242.3
Other agencies											
Agency for International Development	0.1	0.1	18.4	18.0	1.5	2.9	0.6	0.8	0.0	0.0	0.0
Environmental Protection Agency	96.4	113.9	109.2	104.3	100.6	78.4	83.7	86.9	88.0	84.9	86.4
National Aeronautics and Space Administration	1,907.8	2,143.5	2,239.6	1,803.2	1,313.0	874.5	1,021.6	809.3	856.8	940.5	1,033.0
National Science Foundation	3,391.0	3,505.1	3,410.7	3,504.0	3,618.4	3,715.5	5,623.9	4,667.2	4,690.6	4,726.6	4,965.3
Smithsonian Institution	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	193.5	199.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 123. Federal obligations for applied research, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4
Departments											
Department of Agriculture	665.8	635.8	716.2	703.8	670.0	700.0	730.1	744.8	803.5	900.6	880.3
Agricultural Cooperative Service	3.4	2.9	3.7	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4
Agricultural Research Service	257.1	233.3	257.9	259.6	256.6	261.3	288.0	316.4	327.3	358.0	381.5
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Economic Research Service	50.6	48.3	45.3	48.4	47.7	47.7	64.4	56.2	57.7	59.1	60.3
Food Safety and Inspection Service	na	na	na	na	na	na	na	na	1.6	1.8	0.0
Foreign Agricultural Service	0.0	0.0	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6
Forest Service	106.9	107.8	156.5	154.8	143.0	137.4	143.0	88.7	100.4	106.7	113.9
Grain Inspection, Packers, and Stockyards Administration	1.5	1.8	1.8	0.3	0.5	0.6	0.5	0.0	0.7	0.0	0.0
Human Nutrition Information Service	10.7	8.4	7.0	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	2.4	2.6	2.6	2.7	2.5	2.3	2.2	2.4	2.6	2.8	3.1
National Institute of Food and Agriculture[a]	228.6	226.2	234.3	231.7	213.7	243.6	223.0	272.9	305.2	365.2	312.3
Office of International Cooperation and Development	0.4	0.4	0.0	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2
Department of Commerce	561.4	544.9	678.2	853.1	813.1	768.8	767.4	798.9	849.6	763.4	921.9
Economic Development Administration	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.4
National Institute of Standards and Technology	115.8	136.4	167.5	333.1	318.2	293.3	266.7	266.9	268.3	283.3	298.6
National Oceanic and Atmospheric Administration	438.7	401.4	502.7	510.4	480.8	468.8	491.7	523.7	574.1	470.8	615.7
National Telecommunications and Information Administration	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1
Office of the Secretary	0.0	0.0	0.0	*	*	0.0	0.0	na	na	na	na
U.S. Census Bureau	2.4	2.9	2.5	2.6	1.6	2.4	4.6	3.8	2.5	4.7	3.2
Department of Defense	2,974.5	3,515.2	3,040.0	2,950.1	2,857.6	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8
Defense agencies and activities	1,162.9	1,469.2	1,381.7	1,218.6	1,211.1	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2
Department of the Air Force	584.7	669.1	571.9	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8	1,058.4
Department of the Army	727.8	802.8	639.3	633.3	475.3	531.7	635.9	667.3	765.6	879.7	886.9
Department of the Navy	499.0	574.1	447.0	470.5	516.8	538.5	493.2	517.5	599.3	629.0	753.3
Department of Education	119.5	128.3	131.2	132.8	132.1	135.0	146.7	146.6	161.5	180.9	178.3
Department of Energy	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.1
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.5
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	233.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.0
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	136.9
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	2,046.1
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	1,893.9
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	152.1

TABLE 123. Federal obligations for applied research, by agency: FYs 1992–2002
(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
Department of Health and Human Services	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1
Administration for Children and Families	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3
Administration on Aging	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7
Agency for Healthcare Research and Quality	97.8	105.6	141.2	124.0	116.0	134.1	138.8	171.3	186.7	248.1	274.8
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	14.7	13.1	12.4
Ctrs. for Disease Control and Prevention	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0
Ctrs. for Medicare and Medicaid Services	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0
Food and Drug Administration	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3
Health Resources and Services Administration	8.8	8.5	9.8	11.2	10.1	12.1	11.9	11.6	34.5	13.9	15.2
National Institutes of Health	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3
Office of the Assistant Secretary for Health	6.0	0.0	0.0	0.0	na	na	na	na	na	na	na
Office of the Secretary	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	0.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	0.0
Social Security Administration	33.0	24.5	22.2	20.4	na	na	na	na	na	na	na
Department of Housing and Urban Development	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2
Department of the Interior	339.7	349.8	566.9	477.3	486.0	496.2	454.1	550.9	496.6	511.0	511.6
Bureau of Land Management	5.3	7.4	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Bureau of Mines	59.2	60.4	70.0	0.0	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2
Bureau of Reclamation	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6
National Biological Service	na	0.0	135.4	125.8	na	na	na	na	na	na	na
National Park Service	31.1	37.5	23.6	19.2	19.7	25.5	29.2	22.9	34.2	8.3	12.6
Office of Surface Mining, Reclamation, and Enforcement	0.3	0.5	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Office of the Secretary	0.2	0.2	0.0	0.0	0.0	0.0	0.0	na	na	na	na
U.S. Fish and Wildlife Service	64.8	64.8	0.0	0.0	0.0	0.0	0.0	na	na	na	na
U.S. Geological Survey	164.3	165.9	311.9	306.2	439.5	444.8	389.0	491.5	425.8	470.9	464.1
Department of Justice	15.0	20.5	20.0	17.7	19.5	20.1	26.0	36.2	27.8	36.8	23.8
Bureau of Prisons	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6
Drug Enforcement Administration	0.1	*	0.1	0.0	*	*	0.0	na	na	na	na
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.2	0.4	0.0	na	na	na	na
Office of Justice Programs	12.0	17.6	17.4	14.1	16.1	17.8	21.7	28.8	24.4	28.3	20.1
Department of Labor	23.6	13.4	13.7	16.6	15.2	10.4	11.0	16.6	35.1	18.7	15.3
Bureau of Labor Statistics	7.6	1.5	1.5	1.5	1.8	1.3	1.3	1.3	1.3	8.1	8.3
Employee Benefits Security Administration	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7
Employment and Training Administration	5.4	3.3	2.9	4.2	2.6	1.5	2.2	8.8	25.0	0.0	0.0
Occupational Safety and Health Administration	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8
Office of the Secretary	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3
Pension Benefit Guaranty Corp.	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 123. Federal obligations for applied research, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Department of State	0.7	0.5	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3
Department of Transportation	155.7	224.4	270.4	323.9	336.7	343.7	366.1	416.0	328.2	422.7	494.6
Federal Aviation Administration	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8
Federal Highway Administration	72.0	90.1	131.2	156.3	135.4	111.6	134.6	187.2	76.7	135.3	121.1
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	2.8	8.0	0.2
Federal Railroad Administration	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7
Federal Transit Administration	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6
Maritime Administration	1.8	1.7	1.7	2.5	0.0	0.0	0.0	na	na	na	na
National Highway Traffic Safety Administration	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6
Office of the Secretary	0.7	0.6	0.6	0.6	0.0	0.0	0.0	na	na	na	na
Research and Special Programs Administration	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	28.3
U.S. Coast Guard	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4
Department of the Treasury	17.2	4.6	9.2	48.9	50.4	50.8	52.5	50.7	51.2	63.2	61.1
Bureau of Engraving and Printing	1.8	3.2	1.6	1.3	1.5	1.6	2.6	2.0	2.6	4.7	4.6
Internal Revenue Service	13.9	0.0	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5
Office of Thrift Supervision	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1
U.S. Customs Service	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*
U.S. Secret Service	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8
Department of Veterans Affairs	185.2	194.1	209.1	206.4	222.8	217.4	149.1	183.8	185.4	196.1	172.6
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	2.1	1.4	1.4	na	na	na	na	na	na	na
Agency for International Development	294.2	350.8	214.4	270.4	203.0	176.5	171.1	163.7	189.2	239.1	247.5
Appalachian Regional Commission	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	0.1	*	0.3
Consumer Product Safety Commission	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Environmental Protection Agency	293.9	272.4	301.0	331.3	329.1	358.0	419.8	400.0	352.1	276.2	259.9
Federal Communications Commission	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4
Federal Trade Commission	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8
Library of Congress	1.4	1.4	1.5	1.6	1.6	0.5	0.5	0.5	0.6	2.0	1.7
National Aeronautics and Space Administration	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	126.9	138.1	169.7	176.0	181.0	191.8	170.7	146.5	185.5	180.9	185.5
Nuclear Regulatory Commission	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3
Social Security Administration	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8
Tennessee Valley Authority	22.2	18.1	17.0	17.4	3.9	4.0	0.8	na	na	na	na

TABLE 123. Federal obligations for applied research, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
U.S. Arms Control and Disarmament Agency	2.1	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na
U.S. Information Agency	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na
U.S. International Trade Commission	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 124. Federal obligations for applied research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	28,623.6	29,903.5
Departments											
Department of Agriculture	907.6	998.9	1,049.2	1,084.7	1,130.2	1,136.1	1,145.3	1,158.8	1,162.0	1,239.8	1,128.9
Agricultural Marketing Service	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.6
Agricultural Research Service	382.3	450.2	454.2	465.3	468.2	460.3	456.5	471.3	453.2	440.6	441.0
Economic Research Service	61.6	63.7	66.6	67.5	83.4	73.4	70.9	84.5	73.5	70.7	70.4
Foreign Agricultural Service	0.7	1.2	1.1	0.6	0.4	0.3	0.3	0.3	0.4	0.4	0.4
Forest Service	131.4	133.2	133.2	138.2	191.9	173.0	192.2	184.3	192.0	206.6	181.2
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	6.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3.7	4.3	4.3	4.6	4.8	4.3	4.2	4.2	4.1	4.1	4.1
National Institute of Food and Agriculture[a]	319.9	334.5	371.7	390.9	354.1	418.1	414.9	407.2	435.0	511.9	425.8
Rural Business-Cooperative Service	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	3.3	3.3
Department of Commerce	988.3	840.0	830.5	767.3	825.7	853.1	820.8	932.8	775.4	804.9	1,238.5
Economic Development Administration	0.5	0.2	0.5	0.2	0.8	1.3	1.3	1.3	0.2	3.7	0.0
National Institute of Standards and Technology	315.5	312.6	298.6	282.6	312.4	296.8	342.6	456.5	307.9	321.1	650.9
National Oceanic and Atmospheric Administration	665.6	519.9	520.3	471.8	500.1	542.7	463.8	458.0	448.8	406.3	451.5
National Telecommunications and Information Administration	6.4	6.3	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.5	6.7
U.S. Census Bureau	0.3	0.9	4.2	6.0	5.3	5.3	6.2	9.4	10.8	66.3	129.4
Department of Defense	4,419.5	4,281.7	4,532.0	4,447.7	4,866.8	4,964.4	5,061.7	5,212.0	4,710.3	4,648.1	4,677.0
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	NA	NA	1,129.8	1,239.1	1,179.1
Defense agencies and activities[b]	1,699.2	1,685.5	1,594.6	1,580.2	1,630.8	1,719.5	1,863.9	2,028.8	na	na	na
Department of the Air Force	1,091.1	891.3	876.8	1,000.5	1,117.9	1,191.9	1,172.0	1,202.6	1,203.2	1,294.4	1,334.3
Department of the Army	877.0	1,028.8	1,303.4	1,103.8	1,336.7	1,239.0	1,235.8	1,260.8	1,063.4	917.3	867.6
Department of the Navy	752.2	676.1	757.3	763.3	781.4	814.0	789.9	719.7	748.4	806.5	791.0
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	NA	NA	565.5	390.8	505.0
Department of Education	196.1	201.9	204.4	213.0	207.4	199.5	198.4	218.0	205.5	203.6	223.4
Department of Energy	2,813.7	2,835.4	2,957.3	2,885.7	2,848.9	2,919.3	3,127.2	3,628.8	3,388.4	3,275.6	3,914.8
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	205.1	127.8	61.0	141.6
Bonneville Power Administration	11.4	12.0	8.9	9.8	8.6	11.1	6.4	3.9	1.3	1.5	4.9
Civilian Radioactive Waste Management	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	66.5	93.4	57.3	27.3	61.7	66.1	55.3	27.6	49.6
Energy Efficiency and Renewable Energy	279.9	244.3	249.1	210.2	342.3	416.8	651.1	891.0	465.9	434.5	739.0
Environmental Management	20.8	12.8	14.9	10.2	2.4	2.3	10.9	30.8	22.3	6.8	6.6
Fossil Energy	245.9	221.6	206.7	210.8	211.0	179.0	241.8	213.3	180.7	130.5	121.5
National Nuclear Security Administration	2,147.7	2,193.6	2,274.5	2,210.9	2,145.8	2,151.3	2,039.3	1,917.7	2,208.3	2,371.6	2,545.7
Defense Programs	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,317.5
Nonproliferation and Verification	137.8	87.8	81.0	134.7	117.4	184.2	243.5	207.4	233.6	228.2	228.2

TABLE 124. Federal obligations for applied research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Nuclear Energy	29.4	69.4	83.2	87.5	71.0	130.1	116.0	300.9	326.8	242.3	305.9
Office of Science	2.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	12,185.3	13,224.7	12,831.0	13,140.0	13,438.5	13,428.5	16,717.7	17,147.7	14,704.4	14,749.3	14,766.8
Administration for Children and Families	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	9.8	10.0
Administration on Aging	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	284.0	279.4	293.2	293.2	293.4	307.6	347.8	789.3	341.0	339.5	307.6
Agency for Toxic Substances and Disease Registry	14.3	10.7	9.4	9.0	4.2	4.3	4.5	2.8	5.1	4.8	4.8
Ctrs. for Disease Control and Prevention	564.0	539.8	510.8	544.6	388.6	389.0	280.7	324.3	282.8	251.3	193.4
Ctrs. for Medicare and Medicaid Services	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.2	24.6
Food and Drug Administration	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	217.7	258.7
Health Resources and Services Administration	14.0	14.9	15.1	14.8	14.4	19.2	21.0	27.2	24.1	24.1	24.1
National Institutes of Health	11,056.4	12,125.9	11,716.7	12,028.6	12,515.1	12,498.4	15,833.3	15,650.7	13,761.3	13,861.2	13,925.1
Office of the Secretary	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Office of the Assistant Secretary, Planning and Evaluation	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.6	18.5
Department of Homeland Security	NA	246.9	542.1	526.3	485.2	79.7	245.9	221.2	134.3	124.2	166.6
Science and Technology Directorate	NA	199.4	356.0	515.7	479.2	72.5	239.1	213.6	127.3	110.9	159.7
Transportation Security Administration	NA	41.5	180.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	5.1	4.6	7.1	5.2	6.6	6.7	7.6	7.1	13.3	6.8
U.S. Secret Service	NA	1.0	1.0	1.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	48.8	64.6	57.1
Department of the Interior	492.7	509.9	495.6	509.0	511.8	522.9	610.5	594.1	580.6	562.2	609.7
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	na	na	37.7	39.0
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na
Bureau of Reclamation	3.3	3.8	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	na	na	7.3	13.1
National Park Service	6.5	11.5	3.2	3.7	7.0	6.6	11.3	6.4	8.3	0.0	0.0
U.S. Geological Survey	456.2	467.4	460.9	473.4	476.8	480.8	560.5	537.0	518.3	509.7	550.2
Department of Justice	25.4	32.6	40.2	34.9	38.5	77.5	71.5	74.4	66.9	51.0	9.8
Bureau of Prisons	4.8	5.0	4.4	2.7	4.2	3.0	2.8	2.8	3.5	3.3	3.4
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.5	6.5
Office of Justice Programs	20.6	27.6	35.8	32.1	34.3	74.5	68.8	71.6	55.4	41.2	0.0
Department of Labor	23.2	23.8	22.2	16.5	33.8	26.6	29.2	11.9	53.0	13.0	13.3
Bureau of Labor Statistics	7.5	8.7	8.7	9.2	9.5	9.9	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	8.9	9.0
Employment and Training Administration	9.0	9.0	6.7	0.7	18.8	10.7	22.4	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	4.0	4.1
Office of the Secretary	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TABLE 124. Federal obligations for applied research, by agency: FYs 2003–13
(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of State	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	2.0
Department of Transportation	408.4	340.3	254.6	533.6	587.0	634.1	586.7	641.2	632.6	670.3	721.5
Federal Aviation Administration	135.6	118.3	128.3	136.6	128.2	140.4	162.9	236.6	210.1	230.8	223.1
Federal Highway Administration	168.3	181.9	51.7	286.8	345.8	347.3	316.8	291.2	295.4	326.0	333.1
Federal Motor Carrier Safety Administration	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.6	6.5
Federal Railroad Administration	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.7	20.3	18.9	10.6
Federal Transit Administration	0.0	*	0.3	3.6	2.8	3.6	4.2	20.0	23.3	6.1	30.7
National Highway Traffic Safety Administration	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	72.0	111.0
Pipeline and Hazardous Materials Safety Administration	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.1	3.4	5.6	2.6
Research and Innovative Technology Administration	na	0.0	0.1	0.7	1.7	10.7	3.7	4.2	3.4	4.3	4.0
Research and Special Programs Administration	3.5	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	58.5	61.2	63.1	60.4	58.9	64.4	66.8	68.3	76.7	74.7	77.8
Bureau of Engraving and Printing	4.1	3.9	5.4	5.1	4.1	4.8	1.8	0.9	4.9	4.4	8.8
Internal Revenue Service	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	68.9	68.9
U.S. Mint	NA	NA	NA	NA	NA	0.0	0.0	1.1	1.0	1.3	0.0
Department of Veterans Affairs	185.6	209.2	205.8	210.8	228.4	245.6	274.0	297.0	324.9	322.2	314.1
Other agencies											
Agency for International Development	262.3	241.3	198.3	197.0	232.9	121.0	159.6	83.5	119.2	121.6	124.0
Appalachian Regional Commission	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.4	0.4
Broadcasting Board of Governors	0.0	1.0	0.2	0.2	na	na	na	na	na	na	na
Environmental Protection Agency	365.4	422.9	416.2	400.5	391.5	371.8	384.4	397.9	403.4	394.2	401.3
Federal Communications Commission	4.5	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	3.9	4.8
Federal Trade Commission	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	1.9	1.9
Library of Congress	0.5	14.4	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.6	0.6
National Aeronautics and Space Administration	2,645.7	2,355.9	1,489.4	1,468.6	818.8	531.2	681.8	693.6	717.8	696.0	834.4
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	2.0

TABLE 124. Federal obligations for applied research, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
National Science Foundation	217.6	265.6	332.2	286.6	351.7	419.7	471.3	348.5	455.0	450.4	458.0
Nuclear Regulatory Commission	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	68.8	80.8
Social Security Administration	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	78.2	74.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

[b] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[c] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

[d] The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

[e] The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 125. Federal obligations for development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All agencies	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5	41,178.5	41,813.1	37,439.7	39,778.8	45,701.9
Departments											
Department of Agriculture	66.1	76.1	77.4	81.4	80.3	98.5	107.1	126.1	135.4	155.3	161.3
Agricultural Marketing Service	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8
Agricultural Research Service	43.9	52.8	54.3	54.7	54.0	61.9	68.2	77.0	79.6	89.5	95.4
Animal and Plant Health Inspection Service	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	*	*	0.1	0.4	0.3	0.4	na
Forest Service	4.9	5.5	3.3	5.8	5.6	13.9	15.5	27.6	31.2	33.2	35.4
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	1.2	2.0	2.2	2.2	0.0	2.9	6.1	6.0
Department of Commerce	55.3	74.2	107.8	243.7	216.9	195.1	141.6	142.2	140.7	169.6	156.9
National Institute of Standards and Technology	29.6	34.3	45.9	191.2	161.6	128.9	89.0	93.3	95.6	85.2	96.7
National Oceanic and Atmospheric Administration	23.7	37.8	59.9	50.6	47.7	40.5	27.4	18.4	18.7	22.1	22.0
National Telecommunications and Information Administration	0.0	0.0	0.0	0.0	3.8	24.0	21.8	21.4	17.7	46.2	15.5
U.S. Census Bureau	2.0	2.1	2.0	1.9	3.8	1.7	3.4	9.1	8.7	16.1	22.7
Department of Defense	32,056.1	31,065.7	30,312.6	29,597.9	30,539.9	30,978.4	31,316.3	31,503.6	31,293.7	33,175.8	39,147.4
Defense agencies and activities	6,114.4	5,766.0	5,553.1	5,731.2	6,184.4	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2
Department of the Air Force	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8	13,135.0	13,102.2	13,257.6	13,005.5	12,361.1	13,382.6
Department of the Army	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1
Department of the Navy	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1
Operational Test and Evaluation, Director	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5
Test and Evaluation, Deputy Under Secretary of Defense	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na
Department of Education	41.5	44.1	39.9	39.3	38.2	43.2	55.7	75.1	83.8	94.4	102.1
Department of Energy	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.7
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	na	na	NA	446.2
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.5
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	218.3
National Nuclear Security Administration	na	na	na	na	na	na	na	na	NA	NA	1,229.8
Defense Programs	na	na	na	na	na	na	na	na	NA	NA	478.7
Fissile Materials Disposition	na	na	na	na	na	na	na	na	NA	NA	27.4
Naval Reactors	na	na	na	na	na	na	na	na	NA	NA	637.0
Nonproliferation and Verification	na	na	na	na	na	na	na	na	NA	NA	86.8
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Department of Health and Human Services	1,042.3	1,156.6	1,285.1	1,379.3	1,405.2	1,557.2	1,883.2	2,200.1	512.8	693.3	780.7
Administration for Children and Families	4.8	1.4	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administration on Aging	17.8	18.2	15.6	17.7	3.5	4.3	8.0	16.1	0.0	0.0	0.0
Agency for Healthcare Research and Quality	8.5	9.2	12.4	11.3	9.2	9.9	7.7	10.9	11.9	21.6	23.9

TABLE 125. Federal obligations for development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Health Resources and Services Administration	0.0	0.0	5.8	1.0	0.0	0.0	0.0	0.0	0.0	34.9	36.8
National Institutes of Health	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1	1,473.3	1,591.0	1,879.9	0.0	0.0	0.0
Office of the Assistant Secretary for Health	0.7	1.2	0.8	0.3	na	na	na	na	na	na	na
Office of the Secretary	0.0	0.0	0.0	0.0	1.7	0.6	3.1	3.8	3.1	2.5	2.5
Office of Public Health and Science	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6
Department of Housing and Urban Development	16.3	15.5	25.9	27.7	22.0	22.2	18.8	37.9	30.1	34.9	29.1
Department of the Interior	38.6	39.0	43.9	29.2	25.5	27.2	29.1	31.5	31.4	46.9	75.4
Bureau of Land Management	0.4	0.9	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Bureau of Mines	4.2	6.9	12.5	0.0	na	na	na	na	na	na	na
Bureau of Reclamation	2.5	2.8	1.8	2.0	1.6	1.7	2.2	2.6	2.5	2.4	6.8
National Biological Service	na	0.0	13.8	13.0	na	na	na	na	na	na	na
National Park Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	8.6
Office of the Secretary	0.7	0.2	0.1	*	0.0	0.0	0.0	na	na	na	na
U.S. Fish and Wildlife Service	13.9	15.3	0.0	0.0	0.0	0.0	0.0	na	na	na	na
U.S. Geological Survey	16.9	12.8	15.7	14.1	23.8	25.5	26.9	28.9	29.0	41.5	60.1
Department of Justice	27.7	23.3	19.2	32.1	45.2	52.3	58.6	64.6	30.9	41.6	50.0
Bureau of Prisons	3.4	3.6	3.3	2.5	2.2	2.7	3.8	3.5	4.3	5.6	5.1
Drug Enforcement Administration	1.3	0.8	0.8	0.4	1.2	*	0.0	NA	NA	NA	NA
Federal Bureau of Investigation	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6
Immigration and Naturalization Service	na	na	na	na	na	na	na	na	0.6	0.9	NA
Office of Justice Programs	12.1	7.5	8.1	18.3	8.5	14.0	19.0	24.5	16.1	16.0	11.4
Department of Labor	27.9	36.1	40.1	25.5	25.8	13.3	5.7	26.4	37.5	40.3	120.9
Employment and Training Administration	26.1	32.5	36.9	21.4	24.3	12.6	5.0	25.0	35.9	35.9	119.3
Office of the Secretary	1.7	3.0	2.2	3.4	0.8	0.1	0.1	0.8	1.0	3.8	0.9
Pension Benefit Guaranty Corp.	0.1	0.6	1.0	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7
Department of Transportation	288.1	319.3	347.4	356.2	177.3	145.7	165.1	190.3	123.0	228.7	284.6
Federal Aviation Administration	206.1	189.1	206.1	205.1	77.7	49.7	76.4	63.0	54.6	100.8	100.3
Federal Highway Administration	57.0	83.1	101.5	109.4	66.1	61.1	57.7	85.4	33.9	82.5	119.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	1.1	3.4	3.6
Federal Railroad Administration	3.9	4.3	3.4	4.0	5.4	0.7	0.3	0.6	3.1	0.3	3.5
Federal Transit Administration	1.7	13.3	12.1	17.9	8.1	11.1	10.2	15.7	8.9	8.0	5.2
Office of the Secretary	3.4	3.9	4.9	3.3	2.8	3.5	3.4	9.1	4.0	13.0	18.4
Research and Special Programs Administration	1.1	0.8	2.7	1.8	2.1	2.4	1.7	na	2.3	3.1	6.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	na	11.8
U.S. Coast Guard	15.0	24.7	16.7	14.8	15.0	17.2	15.3	15.2	15.0	17.7	15.6
Department of the Treasury	3.8	5.5	9.8	12.4	9.5	8.8	12.5	14.0	10.3	4.5	12.6
Bureau of Engraving and Printing	0.2	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.2	*	1.8
Financial Crimes Enforcement Network	1.2	1.5	0.0	0.0	0.0	0.0	0.0	na	na	na	na
Internal Revenue Service	0.4	0.0	5.2	3.9	3.7	3.0	4.1	7.8	7.0	0.7	NA

TABLE 125. Federal obligations for development, by agency: FYs 1992–2002

(Dollars in millions)

Agency	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
U.S. Customs Service	2.0	3.9	4.0	7.7	5.7	5.8	8.3	5.3	1.8	3.0	10.6
U.S. Mint	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3
Department of Veterans Affairs	23.0	28.7	24.5	19.1	20.8	21.7	8.0	6.8	7.0	6.8	14.5
Other agencies											
Agency for International Development	65.9	23.0	38.1	29.8	18.0	29.7	39.1	39.3	29.5	27.8	22.2
Consumer Product Safety Commission	0.3	0.4	0.2	0.4	*	0.0	0.0	95.8	NA	NA	NA
Environmental Protection Agency	79.6	133.7	151.2	149.9	83.5	83.1	94.0	0.0	91.5	99.8	91.5
Library of Congress	8.5	8.7	8.1	8.0	8.4	1.9	1.1	1.8	1.9	1.1	1.3
National Aeronautics and Space Administration	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7
National Archives and Records Administration	0.1	*	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Tennessee Valley Authority	72.9	80.6	71.9	66.7	1.9	4.9	1.8	NA	NA	NA	NA

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 126. Federal obligations for development, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All agencies	52,455.4	58,716.6	65,109.6	68,194.3	73,169.3	73,212.0	77,398.2	76,626.5	77,467.1	76,735.9	76,502.4
Departments											
Department of Agriculture	170.5	183.4	181.5	183.1	180.8	182.5	191.7	223.2	216.0	213.6	204.6
Agricultural Marketing Service	0.7	1.0	0.2	0.0	0.0	2.5	2.1	2.2	2.1	2.1	2.6
Agricultural Research Service	95.6	109.8	110.8	113.5	114.2	112.3	114.1	117.8	113.3	110.1	110.3
Animal and Plant Health Inspection Service	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	39.0	37.0
Forest Service	40.9	41.4	46.2	44.1	40.5	39.3	46.6	73.1	71.6	62.3	54.6
Grain Inspection, Packers, and Stockyards Administration	5.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	153.8	171.0	143.9	101.5	99.2	80.8	187.8	139.4	126.2	88.3	427.7
National Institute of Standards and Technology	95.0	84.5	61.2	30.3	41.2	23.2	21.2	34.1	34.0	15.9	318.1
National Oceanic and Atmospheric Administration	19.8	46.3	63.5	55.1	40.7	38.1	143.7	67.4	43.5	37.2	56.1
National Telecommunications and Information Administration	17.1	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	21.9	22.4	19.3	16.1	17.3	19.4	22.9	37.8	48.7	35.2	53.5
Department of Defense	46,081.5	52,095.0	57,456.2	60,118.7	65,817.3	65,252.4	69,064.6	66,405.6	68,561.6	67,884.9	66,955.8
Defense Advanced Research Projects Agency[a]	NA	NA	NA	NA	NA	NA	NA	NA	1,462.3	1,298.1	1,291.3
Defense agencies and activities[a]	10,290.9	11,189.0	13,572.5	12,563.0	14,037.1	13,874.8	14,034.0	13,820.9	na	na	na
Department of the Air Force	16,929.6	19,108.5	18,724.6	20,336.8	23,723.9	23,640.4	26,346.2	24,843.2	24,826.1	26,707.0	27,528.7
Department of the Army	6,492.0	7,751.9	8,508.1	9,865.7	9,907.3	10,246.7	10,241.5	9,178.1	8,353.3	7,717.3	7,397.8
Department of the Navy	12,133.4	13,747.5	16,343.5	17,174.3	17,967.2	17,305.8	18,256.7	18,366.5	16,497.0	17,001.3	15,451.0
Operational Test and Evaluation, Director[a]	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na
Other defense agencies[a, b]	NA	NA	NA	NA	NA	NA	NA	NA	17,422.8	15,161.3	15,287.1
Department of Education	101.2	100.6	102.0	121.4	121.6	124.0	119.7	137.7	133.1	134.1	152.2
Department of Energy	2,151.3	2,055.7	2,029.7	1,841.7	2,020.9	2,139.1	2,701.8	3,087.2	2,595.7	2,505.7	2,694.1
Advanced Research Projects Agency—Energy	na	na	na	na	na	0.0	0.0	172.7	47.1	50.0	52.4
Bonneville Power Administration	8.7	9.3	2.3	1.0	2.5	2.6	0.7	1.3	7.9	9.2	1.6
Electricity Delivery and Energy Reliability	NA	NA	13.9	40.1	35.2	55.4	25.5	39.9	27.0	15.9	28.6
Energy Efficiency and Renewable Energy	371.8	317.0	285.5	219.3	318.7	300.1	930.3	983.4	395.7	544.9	653.0
Environmental Management	48.6	30.0	34.8	23.8	16.3	17.1	19.3	59.0	45.2	13.7	13.4
Fossil Energy	383.5	294.9	350.4	217.5	201.7	221.0	239.7	266.6	225.8	163.1	151.8
National Nuclear Security Administration	1,317.0	1,399.8	1,341.4	1,338.6	1,436.5	1,540.1	1,486.2	1,497.1	1,785.9	1,687.7	1,784.7
Defense Programs	566.8	621.5	539.4	517.4	627.5	740.3	680.3	537.2	796.3	619.0	708.1
Fissile Materials Disposition	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	650.0	708.6	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,031.1	1,039.0
Nonproliferation and Verification	75.1	68.7	61.5	100.8	78.8	88.0	49.5	45.6	47.9	37.6	37.6
Nuclear Energy	17.7	4.8	1.3	1.5	9.9	3.0	0.0	67.2	61.0	21.3	8.5
Office of Intelligence	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 126. Federal obligations for development, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of Health and Human Services	111.3	142.0	128.5	86.0	90.8	94.1	94.1	137.0	78.0	71.4	68.3
Agency for Healthcare Research and Quality	24.7	24.3	25.5	25.5	25.5	26.7	30.2	63.1	29.7	29.5	26.7
Agency for Toxic Substances and Disease Registry	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	17.1	26.9	30.9	37.2	38.3	31.3	30.9
Health Resources and Services Administration	26.7	30.5	35.2	6.2	6.4	40.4	32.9	36.7	10.1	10.5	10.6
Office of the Secretary	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Public Health and Science	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	NA	532.6	765.0	1,119.2	321.0	511.8	325.3	352.6	311.0	287.3	386.1
Science and Technology Directorate	NA	507.7	756.2	1,096.0	305.2	498.7	311.9	335.5	296.8	258.6	372.5
Transportation Security Administration	NA	15.0	0.0	9.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	NA	9.9	8.8	14.2	12.1	13.0	13.4	17.1	14.2	28.7	13.6
Department of Housing and Urban Development	25.1	29.2	27.0	22.0	26.5	19.2	21.5	22.9	24.1	29.1	27.0
Department of the Interior	63.3	58.1	58.3	52.0	61.4	70.1	74.8	77.7	76.5	115.2	121.0
Bureau of Reclamation	6.1	7.1	8.3	5.7	5.5	5.8	5.5	2.4	2.9	2.5	2.5
Bureau of Safety and Environmental Enforcement	na	na	na	na	na	na	na	na	na	2.4	3.3
National Park Service	3.9	2.8	0.4	0.2	0.7	1.9	2.8	1.1	0.9	0.0	0.0
U.S. Geological Survey	53.3	48.2	49.6	46.0	55.2	62.4	66.4	74.2	72.8	110.3	115.2
Department of Justice	91.6	58.2	69.9	75.0	113.7	35.9	22.5	37.9	17.8	9.6	9.7
Bureau of Prisons	5.0	5.8	8.4	9.4	8.5	7.5	7.7	7.9	8.2	7.9	8.0
Federal Bureau of Investigation	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	9.7	1.7	1.7
Office of Justice Programs	43.8	18.5	28.0	31.2	34.4	2.3	0.3	0.0	0.0	0.0	0.0
Department of Labor	152.8	161.9	128.4	65.1	1.6	1.5	2.2	2.4	2.6	2.5	2.6
Employment and Training Administration	151.0	161.0	127.0	63.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.8	0.9	1.3	1.6	1.6	1.5	2.2	2.4	2.6	2.5	2.6
Department of Transportation	260.4	269.1	163.8	284.0	201.7	172.0	239.2	262.2	204.4	297.3	227.8
Federal Aviation Administration	109.4	99.5	98.2	123.4	113.7	116.7	134.8	153.8	119.5	140.8	115.5
Federal Highway Administration	112.4	121.5	22.2	111.7	56.4	29.9	31.0	41.0	44.3	51.3	51.0
Federal Motor Carrier Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.4	0.4
Federal Railroad Administration	3.4	4.3	5.0	6.4	6.2	0.0	31.5	31.4	24.0	73.7	31.7
Federal Transit Administration	7.1	4.6	3.9	13.0	3.2	5.8	6.3	2.6	0.6	0.7	3.5
Office of the Secretary	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	15.6	10.0
Pipeline and Hazardous Materials Safety Administration	0.0	7.4	12.1	13.0	14.7	6.1	7.7	7.8	4.6	12.6	13.9
Research and Innovative Technology Administration	na	0.0	1.4	1.7	1.0	0.0	7.5	1.9	1.6	2.2	1.8
Research and Special Programs Administration	7.1	na	na	na	na	na	na	na	na	na	na

TABLE 126. Federal obligations for development, by agency: FYs 2003–13

(Dollars in millions)

Agency	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Department of the Treasury	1.3	1.2	3.0	4.4	4.4	1.0	1.6	0.2	0.6	0.3	0.5
Bureau of Engraving and Printing	0.6	0.2	0.6	0.7	0.9	0.4	0.8	0.2	0.6	0.3	0.5
U.S. Mint	0.7	1.0	2.4	3.7	3.5	0.6	0.8	0.0	0.0	0.0	0.0
Department of Veterans Affairs	15.8	21.3	19.3	19.7	21.4	23.0	32.7	34.0	37.5	37.2	36.2
Other agencies											
Agency for International Development	23.6	23.4	40.8	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	105.3	125.1	116.0	116.7	83.8	81.8	84.7	87.5	85.6	83.7	83.2
Federal Communications Commission	0.0	4.4	3.7	0.4	2.1	0.0	0.1	0.0	0.0	0.0	0.0
Library of Congress	1.2	1.6	7.0	4.0	6.7	0.9	0.3	0.7	0.6	0.7	0.8
National Aeronautics and Space Administration	2,945.5	2,683.1	3,665.7	3,939.2	3,994.4	4,421.8	4,233.5	5,618.4	4,995.8	4,975.0	5,105.0

na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

[b] As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 127. Federal obligations for research and development, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	16,529.1	3,395.7	9,877.8	384.7	1,454.3	666.5	400.1	223.5	63.5	63.1
1968	15,921.2	3,493.1	9,047.0	414.2	1,487.4	713.7	377.5	234.5	100.2	53.5
1969	15,640.9	3,501.2	8,703.1	427.1	1,529.2	722.0	364.2	240.7	102.2	51.1
1970	15,338.9	4,079.3	7,770.1	430.7	1,475.6	751.1	444.9	247.4	99.6	40.2
1971	15,542.5	4,228.3	7,587.5	480.2	1,644.6	728.9	458.8	210.2	141.1	63.1
1972	16,495.9	4,589.2	7,716.0	529.9	1,903.5	760.6	514.9	215.4	206.7	59.6
1973	16,800.2	4,762.2	7,731.3	582.4	1,916.6	725.3	578.2	183.1	256.8	64.4
1974	17,410.1	4,910.9	7,752.3	592.8	2,214.0	789.1	672.2	199.3	214.4	65.1
1975	19,038.8	5,354.0	8,423.2	703.7	2,411.4	935.1	702.3	219.9	227.6	61.6
1976	20,779.7	5,768.7	9,340.3	813.8	2,551.8	1,061.1	708.6	231.0	231.2	73.1
1977	23,450.4	6,011.7	10,717.2	1,112.7	2,905.5	1,313.1	800.0	263.9	238.0	88.2
1978	25,845.1	6,810.4	11,400.0	1,242.5	3,374.6	1,311.9	998.2	315.9	268.4	123.2
1979	28,145.1	7,417.5	12,172.4	1,318.1	3,888.8	1,488.3	1,026.5	368.7	310.1	154.7
1980	29,830.4	7,632.3	12,969.1	1,408.1	4,263.4	1,533.3	1,105.6	441.8	265.5	211.2
1981	33,103.9	8,425.7	14,867.9	1,413.9	4,465.8	1,791.0	1,068.8	525.2	222.2	323.4
1982	36,432.6	9,141.0	17,192.2	1,506.4	4,605.5	1,976.7	1,091.7	520.6	184.3	214.3
1983	38,711.5	10,581.9	17,019.7	1,501.2	4,966.4	2,393.9	1,241.6	581.3	186.0	239.5
1984	42,224.9	11,572.3	18,610.4	1,608.4	5,546.9	2,485.8	1,497.3	597.1	130.9	175.8
1985	48,359.6	12,945.4	21,704.9	1,790.8	6,339.7	2,816.4	1,699.2	689.2	129.4	244.5
1986	51,412.4	13,534.9	24,201.2	1,697.0	6,558.8	2,767.7	1,677.0	551.2	128.4	296.3
1987	55,253.7	13,413.1	26,768.2	1,860.0	7,337.3	3,209.6	1,711.4	510.6	148.2	295.3
1988	56,769.4	14,114.6	26,719.2	1,911.3	7,827.7	3,473.9	1,683.2	505.6	142.1	391.8
1989	61,406.5	15,024.6	28,547.9	2,056.3	8,672.0	3,497.1	1,999.9	522.0	167.4	919.4
1990	63,559.5	15,848.9	29,370.0	2,326.8	9,137.5	3,449.8	2,248.2	621.6	213.9	342.6
1991	61,295.2	15,138.2	26,420.6	2,168.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
1992	65,592.6	15,582.8	29,744.8	2,117.0	10,271.2	3,855.5	2,803.6	745.6	184.1	287.9
1993	67,314.0	16,663.3	30,219.0	1,451.3	11,208.4	3,614.2	2,811.9	753.4	320.3	272.2
1994	67,235.4	16,132.1	30,454.9	1,293.5	11,796.9	3,292.9	2,936.9	736.0	325.4	266.8
1995	68,186.8	17,024.8	30,236.1	1,201.8	11,927.5	3,561.6	2,834.1	825.1	316.5	259.2
1996	67,653.0	16,540.4	30,373.8	1,137.0	11,977.8	3,447.1	2,886.8	755.2	246.7	288.3
1997	69,826.8	16,718.2	31,419.3	1,128.2	12,559.0	3,701.0	2,961.6	821.0	261.1	257.5
1998	72,100.7	17,121.5	31,998.6	1,188.9	13,380.7	3,890.2	3,171.3	603.0	447.5	299.1
1999	75,340.6	18,084.7	31,901.7	1,328.0	14,959.1	3,896.4	3,608.7	913.2	357.5	291.4
2000	75,910.3	18,313.2	29,409.1	1,103.7	16,890.7	4,083.4	4,227.8	1,313.1	225.5	343.9
2001	84,492.5	22,046.7	28,236.7	1,381.7	20,065.1	4,840.0	5,390.0	1,602.8	453.3	476.2
2002	93,708.6	23,357.3	34,569.0	1,364.3	21,620.0	4,663.3	5,781.8	1,489.6	453.7	409.6
2003	103,527.3	25,118.5	40,694.5	1,522.3	23,005.8	4,845.1	5,766.0	1,613.5	404.6	556.9
2004	112,074.5	24,573.1	43,758.7	1,572.1	24,947.0	6,493.9	6,480.5	2,307.6	1,235.7	705.8
2005	118,847.9	25,871.1	48,867.9	1,704.6	25,687.5	6,506.3	6,705.3	2,164.2	689.9	651.1
2006	121,729.9	27,675.4	52,754.0	1,440.7	24,669.7	5,549.7	6,063.3	2,127.8	625.3	824.0
2007	127,262.9	29,932.5	55,342.3	2,691.6	25,547.8	4,171.2	5,984.4	2,520.3	362.0	710.6
2008	127,105.7	29,637.9	56,337.6	4,119.9	26,026.5	1,988.6	5,965.0	2,083.0	389.0	558.1
2009	141,090.1	31,544.0	59,749.3	4,067.1	31,557.8	3,402.7	7,049.7	2,730.7	392.0	596.9
2010	140,354.5	30,911.8	59,867.8	3,946.2	31,192.3	3,370.5	7,245.3	2,784.1	426.7	609.9

TABLE 127. Federal obligations for research and development, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	135,490.8	35,144.7	53,550.2	4,424.5	27,680.3	3,437.8	6,636.6	2,923.7	716.2	976.8
2012 (preliminary)	134,785.7	37,664.9	51,053.7	4,301.0	27,410.8	3,487.2	6,303.0	2,802.0	1,115.9	647.2
2013 (preliminary)	136,471.6	37,301.0	52,286.3	4,936.7	27,785.9	3,395.9	6,309.4	2,828.7	1,038.2	589.4

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 128. Federal obligations for research, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	4,631.4	1,461.3	1,038.5	69.1	1,312.1	355.0	248.7	47.6	53.2	45.7
1968	4,781.1	1,541.4	1,093.6	64.4	1,301.8	378.9	234.1	40.5	81.9	44.5
1969	4,644.9	1,645.3	886.4	69.9	1,321.8	335.5	221.7	47.6	75.1	41.7
1970	4,900.8	1,903.9	876.5	72.5	1,276.4	382.6	230.5	45.1	83.4	29.9
1971	5,123.2	1,887.9	889.0	75.7	1,430.2	358.9	282.0	52.0	95.8	51.6
1972	5,547.7	1,984.4	906.6	75.3	1,642.8	398.4	342.0	59.9	93.8	44.5
1973	5,581.4	2,088.5	887.3	68.7	1,691.1	355.2	316.2	50.2	84.3	40.0
1974	6,175.2	2,270.2	874.6	98.2	1,958.3	374.0	414.2	50.8	91.0	44.0
1975	6,729.7	2,463.8	1,010.2	135.7	2,078.8	425.5	394.7	64.8	111.9	44.3
1976	7,619.3	2,879.2	1,103.0	176.5	2,249.7	548.3	435.4	57.5	119.4	50.4
1977	8,514.1	2,957.7	1,367.3	192.2	2,583.5	670.3	512.2	55.6	115.2	60.3
1978	9,606.8	3,220.8	1,651.4	235.2	2,928.0	714.9	590.9	66.9	128.8	69.9
1979	10,535.0	3,481.2	1,762.0	245.0	3,333.4	800.6	622.6	73.4	139.5	77.4
1980	11,597.4	3,666.3	2,077.6	311.0	3,699.1	851.2	678.4	71.7	150.9	91.1
1981	12,212.8	4,034.2	1,958.3	351.3	3,920.1	940.6	705.2	67.7	129.3	106.0
1982	13,022.2	4,194.2	2,156.6	487.3	4,045.4	1,056.7	743.5	104.2	125.9	108.3
1983	14,253.5	4,710.3	2,114.2	522.6	4,467.9	1,250.1	836.9	85.2	136.7	129.6
1984	14,978.8	4,764.7	2,137.4	496.5	5,029.7	1,335.9	922.6	87.3	88.2	116.5
1985	16,133.4	5,056.1	2,074.4	485.9	5,726.3	1,421.3	1,045.1	97.0	89.5	137.9
1986	16,502.2	5,160.3	2,280.5	482.1	5,883.4	1,291.7	1,062.9	87.9	91.0	162.4
1987	17,940.5	5,437.7	2,448.6	433.5	6,640.2	1,471.0	1,207.5	89.8	90.2	121.9
1988	18,650.1	5,338.4	2,642.5	455.2	7,022.9	1,564.8	1,300.0	82.9	103.1	140.4
1989	20,765.5	5,897.0	2,875.0	604.3	7,793.1	1,703.4	1,519.8	109.5	121.2	142.1
1990	21,622.4	5,809.8	3,191.6	614.3	8,136.5	1,791.5	1,660.0	137.6	126.4	154.5
1991	23,968.4	6,454.4	3,406.5	709.6	8,867.5	2,160.9	1,925.9	170.9	129.3	143.4
1992	24,490.6	6,523.3	3,451.2	684.9	9,060.7	2,351.8	2,049.6	139.9	109.3	120.0
1993	26,890.5	7,451.8	3,923.8	799.3	9,892.3	2,299.4	2,041.3	173.4	211.8	97.4
1994	27,411.2	7,481.1	4,063.9	737.2	10,291.7	2,181.1	2,102.1	178.4	230.8	144.8
1995	28,434.4	7,684.5	4,698.7	811.6	10,353.8	2,233.6	2,078.7	207.2	221.4	144.8
1996	28,259.8	7,513.2	4,269.1	696.2	10,706.6	2,385.0	2,178.9	195.5	187.4	127.8
1997	29,365.3	7,666.9	4,392.1	759.6	11,173.2	2,598.9	2,294.9	217.5	144.0	118.2
1998	30,922.3	7,969.1	4,632.7	844.1	11,739.0	2,743.0	2,425.2	214.5	240.1	114.5
1999	33,527.5	8,685.8	4,579.8	879.3	13,203.8	2,554.1	2,806.7	469.5	232.4	116.1
2000	38,470.6	9,449.6	4,800.7	700.3	16,021.8	2,773.2	3,714.5	696.1	162.5	152.0
2001	44,713.7	11,130.9	5,262.3	822.3	18,657.1	3,096.3	4,577.9	739.4	308.7	118.9
2002	48,006.7	11,857.4	5,786.8	937.3	20,285.4	3,219.4	4,723.0	749.6	275.5	172.3
2003	51,071.8	12,419.6	6,042.4	1,103.5	21,676.5	3,272.6	5,196.3	779.0	305.8	276.1
2004	53,357.8	12,085.2	6,782.7	1,131.6	22,699.1	3,687.3	5,216.4	795.5	532.9	427.0
2005	53,738.2	12,349.9	6,456.4	1,082.0	23,156.0	3,743.4	5,295.8	907.8	376.8	370.2
2006	53,535.7	12,261.6	6,436.3	947.9	22,809.4	3,783.0	5,448.9	1,028.6	417.9	402.1
2007	54,093.6	11,816.4	6,074.2	1,863.0	23,966.9	2,942.4	5,416.7	1,283.0	297.6	433.3
2008	53,893.7	11,921.7	5,782.4	2,929.7	24,323.2	1,623.1	5,397.5	1,205.7	338.8	371.5
2009	63,691.9	13,318.7	6,280.2	3,070.5	30,168.9	2,148.1	6,500.7	1,462.0	343.6	399.3
2010	63,728.0	13,280.9	6,625.5	2,960.1	29,607.8	2,151.6	6,687.0	1,633.6	352.8	428.6

TABLE 128. Federal obligations for research, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	58,023.7	12,663.4	6,037.4	2,984.4	26,253.2	2,224.4	5,760.8	1,447.7	282.2	370.2
2012 (preliminary)	58,049.8	13,049.3	5,839.0	2,917.6	26,228.0	2,208.6	5,743.7	1,394.4	288.3	380.9
2013 (preliminary)	59,969.2	13,533.0	6,365.2	3,190.9	26,612.7	2,266.2	5,767.4	1,551.5	295.8	386.4

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 129. Federal obligations for basic research, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	1,845.8	434.9	180.9	30.3	857.1	203.7	104.9	7.9	4.2	21.9
1968	1,840.6	431.6	195.0	30.1	835.1	225.2	93.4	3.0	11.8	15.5
1969	1,944.8	531.9	184.7	29.8	864.3	219.3	85.5	3.3	13.3	12.6
1970	1,925.9	558.4	185.0	29.7	808.1	237.0	80.1	3.5	13.9	10.1
1971	1,980.1	565.4	166.6	29.2	879.4	227.7	85.2	2.2	16.6	7.9
1972	2,186.9	596.9	151.4	32.2	1,021.4	254.5	96.4	7.2	15.6	11.2
1973	2,232.0	608.1	176.1	39.4	1,048.2	229.0	98.5	3.4	16.2	13.1
1974	2,387.7	695.9	124.0	31.5	1,144.7	223.1	127.1	6.2	16.8	18.3
1975	2,588.4	733.5	118.5	47.9	1,260.6	257.5	128.2	13.8	14.0	14.3
1976	2,767.5	786.0	131.1	59.8	1,341.7	284.9	126.5	7.9	12.9	16.6
1977	3,258.6	914.1	208.1	53.1	1,555.1	324.1	162.5	5.6	15.6	20.4
1978	3,698.6	1,029.3	247.7	65.4	1,759.2	356.8	192.8	5.8	17.1	24.6
1979	4,192.7	1,089.1	277.1	66.6	2,079.9	393.6	240.3	6.7	19.8	19.5
1980	4,674.2	1,182.5	325.3	70.4	2,320.3	436.8	279.5	7.5	23.9	28.1
1981	5,041.3	1,301.8	292.9	73.3	2,503.2	490.6	313.1	8.6	26.5	31.2
1982	5,481.6	1,465.5	270.9	87.4	2,727.1	516.7	355.6	9.0	24.5	24.9
1983	6,260.1	1,689.8	292.9	83.0	3,112.3	604.0	409.6	8.0	32.1	28.5
1984	7,067.4	1,861.1	377.9	91.1	3,530.8	668.9	473.6	8.2	28.1	27.7
1985	7,818.7	1,923.4	380.1	122.6	4,038.7	724.2	555.8	12.4	30.5	30.9
1986	8,153.1	2,018.9	511.6	117.6	4,132.1	724.1	572.1	13.0	30.9	32.7
1987	8,942.4	2,046.2	467.0	119.9	4,665.6	906.7	657.7	13.3	37.5	28.5
1988	9,473.6	2,050.3	596.9	133.0	4,868.3	989.8	728.6	17.7	42.7	46.3
1989	10,602.0	2,313.4	773.2	223.9	5,221.4	1,098.1	838.9	42.2	43.6	47.4
1990	11,285.6	2,294.6	887.5	246.8	5,548.2	1,227.3	924.1	59.2	50.4	47.6
1991	12,170.8	2,391.6	949.9	264.0	6,064.5	1,306.2	1,015.5	80.8	49.1	49.1
1992	12,489.9	2,337.6	920.3	247.2	6,331.8	1,394.1	1,097.2	65.5	42.4	53.8
1993	13,399.1	2,661.8	896.3	243.6	6,833.7	1,402.7	1,164.9	71.3	71.7	53.3
1994	13,523.5	2,497.8	1,109.6	237.6	6,992.3	1,336.0	1,132.9	74.4	75.2	67.6
1995	13,877.0	2,693.5	1,214.2	239.8	6,943.9	1,438.8	1,148.3	75.2	78.7	44.6
1996	14,464.0	2,676.7	1,108.8	272.8	7,443.5	1,521.0	1,234.6	76.1	80.2	50.5
1997	14,941.9	2,688.3	1,166.7	294.7	7,695.8	1,600.0	1,289.6	88.4	68.4	49.9
1998	15,613.0	2,918.5	1,119.4	326.4	7,951.7	1,642.3	1,397.6	121.8	84.9	50.4
1999	17,443.7	3,255.2	1,082.8	313.4	9,107.1	1,565.5	1,650.0	354.9	61.4	53.4
2000	19,569.8	3,621.8	1,356.5	171.3	10,056.7	1,674.0	1,985.3	521.6	75.7	106.9
2001	21,958.1	4,193.8	917.1	175.1	11,792.2	1,762.1	2,441.7	540.5	71.6	64.0
2002	23,668.3	4,460.0	1,231.9	239.6	12,668.2	1,805.2	2,531.7	563.4	71.5	96.8
2003	24,751.4	4,662.1	1,279.6	312.8	13,151.8	1,827.8	2,703.9	582.1	85.4	146.1
2004	26,120.7	4,671.6	1,969.4	292.2	13,398.5	2,005.8	2,746.1	606.8	197.9	232.3
2005	27,140.3	4,772.7	2,051.0	270.1	13,989.9	2,021.2	2,914.2	670.7	235.9	214.6
2006	26,584.6	4,763.6	1,858.9	220.4	13,657.6	2,096.8	2,867.4	755.8	152.7	211.2
2007	26,865.8	4,572.2	1,736.2	341.3	14,220.3	1,982.8	2,793.8	889.5	101.3	228.4
2008	27,154.0	4,767.5	1,545.4	574.9	14,645.7	1,484.3	2,935.2	915.8	75.9	209.1
2009	32,879.4	5,529.8	1,631.6	678.3	18,229.6	1,964.3	3,487.4	1,059.1	94.3	204.8
2010	31,795.3	5,190.9	1,746.9	591.6	17,403.1	1,870.6	3,530.4	1,139.4	103.2	219.2

TABLE 129. Federal obligations for basic research, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	29,313.6	4,869.8	1,726.5	483.0	15,771.4	2,010.1	3,066.5	1,101.9	75.8	208.7
2012 (preliminary)	29,426.2	5,035.0	1,647.6	498.3	15,775.1	2,026.3	3,064.1	1,074.9	82.8	222.2
2013 (preliminary)	30,065.7	5,238.1	1,753.6	474.2	16,038.3	2,056.9	3,077.3	1,133.2	77.3	216.8

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 130. Federal obligations for applied research, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	2,785.5	1,026.4	857.7	38.8	455.0	151.3	143.9	39.7	49.0	23.9
1968	2,940.5	1,109.8	898.5	34.3	466.7	153.7	140.7	37.5	70.2	29.1
1969	2,700.1	1,113.4	701.7	40.0	457.4	116.2	136.2	44.2	61.8	29.0
1970	2,974.9	1,345.5	691.5	42.8	468.4	145.6	150.3	41.6	69.5	19.8
1971	3,143.0	1,322.5	722.4	46.4	550.8	131.2	196.9	49.8	79.2	43.7
1972	3,360.8	1,387.5	755.2	43.1	621.4	144.0	245.5	52.6	78.2	33.3
1973	3,349.4	1,480.4	711.2	29.3	642.9	126.2	217.7	46.8	68.1	26.9
1974	3,787.6	1,574.3	750.7	66.7	813.5	150.9	287.1	44.6	74.2	25.7
1975	4,141.3	1,730.3	891.7	87.8	818.2	168.0	266.4	51.0	97.9	30.0
1976	4,851.9	2,093.1	971.9	116.7	908.0	263.4	308.9	49.6	106.5	33.8
1977	5,255.5	2,043.6	1,159.1	139.1	1,028.4	346.2	349.6	49.9	99.6	39.9
1978	5,908.2	2,191.5	1,403.7	169.8	1,168.8	358.1	398.1	61.2	111.8	45.3
1979	6,342.3	2,392.1	1,484.9	178.3	1,253.5	407.0	382.3	66.7	119.7	57.9
1980	6,923.2	2,483.8	1,752.3	240.7	1,378.8	414.3	398.9	64.2	127.1	63.0
1981	7,171.5	2,732.4	1,665.4	278.1	1,416.9	450.0	392.1	59.1	102.8	74.8
1982	7,540.6	2,728.7	1,885.7	400.0	1,318.3	540.0	387.9	95.2	101.4	83.4
1983	7,993.4	3,020.4	1,821.3	439.7	1,355.6	646.1	427.3	77.1	104.7	101.1
1984	7,911.4	2,903.6	1,759.5	405.4	1,498.9	667.0	449.0	79.1	60.0	88.8
1985	8,314.7	3,132.7	1,694.3	363.3	1,687.6	697.1	489.3	84.6	58.9	107.0
1986	8,349.1	3,141.5	1,768.8	364.5	1,751.4	567.6	490.8	74.9	60.0	129.7
1987	8,998.1	3,391.5	1,981.6	313.6	1,974.6	564.3	549.8	76.5	52.7	93.4
1988	9,176.5	3,288.1	2,045.6	322.2	2,154.6	575.0	571.3	65.2	60.4	94.1
1989	10,163.5	3,583.5	2,101.8	380.5	2,571.8	605.4	681.0	67.3	77.6	94.6
1990	10,336.8	3,515.2	2,304.2	367.5	2,588.4	564.3	735.9	78.4	76.1	106.9
1991	11,797.6	4,062.8	2,456.6	445.6	2,803.0	854.7	910.4	90.1	80.2	94.3
1992	12,000.7	4,185.7	2,530.9	437.6	2,728.9	957.6	952.5	74.5	66.9	66.2
1993	13,491.4	4,790.0	3,027.5	555.6	3,058.6	896.8	876.4	102.2	140.1	44.1
1994	13,887.7	4,983.3	2,954.4	499.6	3,299.4	845.1	969.2	104.0	155.5	77.2
1995	14,557.4	4,991.0	3,484.5	571.8	3,409.9	794.8	930.4	132.0	142.7	100.3
1996	13,795.7	4,836.5	3,160.3	423.4	3,263.1	864.0	944.3	119.4	107.3	77.4
1997	14,423.4	4,978.6	3,225.5	464.9	3,477.4	998.8	1,005.3	129.2	75.5	68.2
1998	15,309.3	5,050.6	3,513.3	517.7	3,787.3	1,100.7	1,027.7	92.6	155.2	64.1
1999	16,083.9	5,430.6	3,497.0	565.8	4,096.7	988.6	1,156.7	114.6	171.0	62.8
2000	18,900.8	5,827.8	3,444.2	528.9	5,965.1	1,099.2	1,729.2	174.5	86.9	45.1
2001	22,755.6	6,937.2	4,345.2	647.2	6,864.9	1,334.2	2,136.2	198.9	237.1	54.9
2002	24,338.4	7,397.4	4,554.9	697.7	7,617.2	1,414.1	2,191.3	186.2	204.0	75.6
2003	26,320.4	7,757.5	4,762.8	790.7	8,524.7	1,444.8	2,492.5	197.0	220.4	130.0
2004	27,237.1	7,413.6	4,813.3	839.3	9,300.6	1,681.6	2,470.3	188.7	335.0	194.7
2005	26,597.9	7,577.2	4,405.4	811.9	9,166.1	1,722.2	2,381.6	237.1	140.9	155.6
2006	26,951.1	7,498.0	4,577.4	727.5	9,151.8	1,686.2	2,581.5	272.8	265.1	190.9
2007	27,227.8	7,244.2	4,338.0	1,521.6	9,746.6	959.6	2,622.9	393.5	196.3	205.0
2008	26,739.7	7,154.2	4,237.0	2,354.8	9,677.5	138.8	2,462.3	289.9	262.9	162.4
2009	30,812.5	7,788.9	4,648.6	2,392.2	11,939.2	183.8	3,013.3	402.9	249.2	194.5
2010	31,932.6	8,090.1	4,878.6	2,368.5	12,204.7	281.0	3,156.6	494.3	249.6	209.4

TABLE 130. Federal obligations for applied research, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	28,710.1	7,793.6	4,310.9	2,501.4	10,481.8	214.3	2,694.3	345.8	206.4	161.5
2012 (preliminary)	28,623.6	8,014.3	4,191.4	2,419.3	10,452.9	182.3	2,679.6	319.5	205.6	158.7
2013 (preliminary)	29,903.5	8,294.9	4,611.6	2,716.7	10,574.4	209.3	2,690.1	418.4	218.6	169.6

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 131. Federal obligations for development, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	11,897.7	1,934.4	8,839.2	315.6	142.2	311.4	151.4	176.0	10.3	17.3
1968	11,140.1	1,951.8	7,953.4	349.9	185.6	334.9	143.4	194.0	18.3	9.0
1969	10,996.0	1,855.9	7,816.7	357.2	207.4	386.5	142.6	193.1	27.0	9.4
1970	10,438.1	2,175.4	6,893.7	358.2	199.1	368.6	214.4	202.3	16.2	10.3
1971	10,419.3	2,340.4	6,698.5	404.5	214.4	370.0	176.8	158.2	45.2	11.4
1972	10,948.2	2,604.8	6,809.5	454.6	260.7	362.1	172.9	155.6	112.9	15.1
1973	11,218.7	2,673.7	6,844.0	513.6	225.5	370.1	262.0	132.8	172.6	24.4
1974	11,234.9	2,640.7	6,877.7	494.6	255.7	415.2	258.1	148.6	123.3	21.0
1975	12,309.1	2,890.2	7,413.0	568.0	332.7	509.6	307.7	155.1	115.7	17.3
1976	13,160.3	2,889.6	8,237.3	637.3	302.1	512.8	273.1	173.5	111.8	22.7
1977	14,936.3	3,054.0	9,350.0	920.6	322.0	642.8	287.9	208.3	122.9	27.9
1978	16,238.4	3,589.7	9,748.6	1,007.3	446.6	597.1	407.3	249.0	139.6	53.2
1979	17,610.1	3,936.3	10,410.5	1,073.1	555.5	687.7	403.8	295.4	170.7	77.3
1980	18,233.1	3,966.1	10,891.5	1,097.0	564.4	682.2	427.1	370.1	114.6	120.1
1981	20,891.1	4,391.5	12,909.6	1,062.6	545.6	850.4	363.6	457.5	92.9	217.5
1982	23,410.4	4,946.8	15,035.6	1,019.1	560.0	920.0	348.1	416.4	58.4	106.0
1983	24,458.0	5,871.7	14,905.5	978.5	498.5	1,143.8	404.7	496.1	49.3	109.9
1984	27,246.1	6,807.6	16,472.9	1,112.0	517.2	1,149.9	574.6	509.8	42.8	59.2
1985	32,226.1	7,889.3	19,630.5	1,304.9	613.5	1,395.1	654.1	592.2	39.9	106.7
1986	34,910.2	8,374.6	21,920.7	1,215.0	675.4	1,476.0	614.1	463.3	37.4	133.9
1987	37,313.2	7,975.3	24,319.6	1,426.4	697.0	1,738.6	503.9	420.8	58.0	173.4
1988	38,119.3	8,776.2	24,076.7	1,456.1	804.8	1,909.1	383.2	422.7	39.0	251.4
1989	40,641.0	9,127.6	25,672.9	1,452.0	878.8	1,793.6	480.0	412.4	46.3	777.3
1990	41,937.1	10,039.1	26,178.4	1,712.5	1,001.0	1,658.3	588.2	484.0	87.5	188.1
1991	37,326.8	8,683.8	23,014.1	1,458.7	1,301.0	1,442.9	711.5	508.5	85.8	120.5
1992	41,102.0	9,059.6	26,293.6	1,432.2	1,210.6	1,503.7	753.9	605.7	74.8	167.9
1993	40,423.5	9,211.6	26,295.2	652.1	1,316.1	1,314.8	770.6	580.0	108.5	174.8
1994	39,824.2	8,650.9	26,390.9	556.3	1,505.2	1,111.8	834.8	557.6	94.7	122.0
1995	39,752.4	9,340.2	25,537.4	390.2	1,573.7	1,328.0	755.4	617.9	95.1	114.4
1996	39,393.3	9,027.2	26,104.7	440.7	1,271.2	1,062.1	707.9	559.7	59.3	160.5
1997	40,461.5	9,051.3	27,027.2	368.6	1,385.7	1,102.1	666.7	603.4	117.1	139.3
1998	41,178.5	9,152.4	27,365.9	344.7	1,641.7	1,147.2	746.0	388.5	207.4	184.6
1999	41,813.1	9,398.9	27,321.8	448.8	1,755.3	1,342.3	802.0	443.7	125.1	175.2
2000	37,439.7	8,863.6	24,608.4	403.4	868.9	1,310.1	513.4	617.1	63.0	191.9
2001	39,778.8	10,915.8	22,974.4	559.4	1,408.0	1,743.7	812.1	863.4	144.6	357.3
2002	45,701.9	11,500.0	28,782.2	427.0	1,334.7	1,443.9	1,058.8	740.0	178.2	237.2
2003	52,455.4	12,698.9	34,652.1	418.9	1,329.3	1,572.5	569.7	834.5	98.8	280.8
2004	58,716.6	12,487.9	36,975.9	440.5	2,247.8	2,806.5	1,264.1	1,512.1	702.8	278.8
2005	65,109.6	13,521.2	42,411.5	622.6	2,531.6	2,762.9	1,409.4	1,256.4	313.1	280.9
2006	68,194.3	15,413.8	46,317.7	492.8	1,860.3	1,766.7	614.4	1,099.2	207.4	421.9
2007	73,169.3	18,116.1	49,268.1	828.6	1,580.9	1,228.8	567.7	1,237.3	64.4	277.3
2008	73,212.0	17,716.1	50,555.2	1,190.2	1,703.3	365.5	567.5	877.3	50.2	186.6
2009	77,398.2	18,225.2	53,467.0	996.6	1,389.0	1,254.6	549.0	1,268.7	48.4	197.6
2010	76,626.5	17,630.9	53,242.3	986.1	1,584.5	1,218.9	558.3	1,150.4	73.9	181.3

TABLE 131. Federal obligations for development, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	77,467.1	22,481.3	47,512.8	1,440.1	1,427.1	1,213.3	875.8	1,476.0	434.0	606.6
2012 (preliminary)	76,735.9	24,615.6	45,214.8	1,383.4	1,182.8	1,278.6	559.3	1,407.7	827.6	266.3
2013 (preliminary)	76,502.4	23,768.1	45,921.1	1,745.8	1,173.2	1,129.7	542.0	1,277.2	742.4	203.0

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 132. Federal obligations for R&D plant, by performer: FYs 1967–2013
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	620.1	239.0	NA	NA	111.7	138.8	NA	NA	130.5	0.1
1968	603.8	294.2	40.9	40.8	98.1	101.7	11.1	9.8	7.3	0.0
1969	669.0	260.4	53.8	87.9	61.9	176.6	4.6	21.2	1.6	0.9
1970	524.4	166.0	41.4	60.9	56.1	169.0	4.7	24.1	2.1	0.1
1971	611.2	202.8	54.0	110.6	49.2	178.7	2.5	3.3	1.2	8.9
1972	602.1	246.6	67.1	75.3	45.3	130.4	28.1	1.8	4.7	2.7
1973	774.3	323.8	76.8	145.0	42.6	162.3	15.8	3.1	3.0	1.9
1974	766.3	308.7	64.3	229.8	25.0	118.4	6.2	2.1	11.9	*
1975	820.7	346.8	62.3	229.7	35.9	131.8	10.5	3.6	0.2	*
1976	836.7	316.8	73.7	205.9	35.2	189.6	10.9	4.7	0.0	0.0
1977	1,367.2	711.9	103.4	215.8	33.7	277.8	6.7	6.1	0.6	11.2
1978	1,295.7	518.0	76.9	257.0	54.6	376.3	4.4	8.3	0.0	0.1
1979	1,475.5	544.8	214.4	224.4	42.0	414.1	9.2	17.7	0.3	8.4
1980	1,555.7	491.1	304.0	256.0	40.3	426.3	8.6	24.6	0.8	3.9
1981	1,485.7	468.0	302.1	246.5	37.0	370.9	41.3	15.1	0.0	4.8
1982	1,389.8	426.0	110.4	362.2	30.3	441.7	6.6	9.4	0.0	3.2
1983	1,297.5	393.9	259.3	166.4	33.6	353.0	82.1	7.9	0.0	1.2
1984	1,787.3	632.8	451.5	196.6	78.5	363.2	55.6	4.2	0.0	4.9
1985	1,820.8	625.3	298.3	187.8	140.8	454.2	69.9	9.1	0.1	35.5
1986	1,538.8	317.1	409.2	215.9	133.2	420.9	11.8	9.6	0.0	21.0
1987	1,846.0	301.6	668.1	212.9	231.1	400.5	20.6	5.4	0.0	5.8
1988	2,057.1	319.6	719.5	204.3	245.8	535.3	23.7	6.2	0.3	2.4
1989	2,165.1	329.5	900.4	212.3	204.9	489.9	14.2	8.4	1.4	4.2
1990	2,271.7	359.0	882.9	231.0	157.3	495.8	113.0	31.4	0.5	0.9
1991	2,852.8	518.8	1,003.1	278.7	253.3	624.2	145.4	19.7	0.6	9.2
1992	2,984.6	506.2	1,014.4	202.2	241.5	579.5	393.9	46.3	0.5	0.0
1993	3,100.7	432.0	1,048.2	124.4	361.4	619.5	415.6	65.5	0.5	33.5
1994	2,215.4	392.6	746.8	119.4	253.2	608.8	20.9	72.9	0.8	0.2
1995	2,256.1	479.8	695.3	95.1	327.3	543.8	25.6	62.6	0.5	26.1
1996	1,746.1	405.1	465.4	43.9	243.1	497.8	23.4	66.1	1.0	0.5
1997	1,926.7	608.3	389.8	60.5	238.6	560.7	16.7	52.0	0.0	0.1
1998	1,813.3	448.4	487.7	45.6	139.5	663.6	10.9	12.1	5.5	0.0
1999	2,045.7	483.3	544.7	172.8	141.2	615.5	12.2	70.7	5.3	*
2000	4,492.8	573.3	2,814.6	27.6	213.5	613.8	55.5	193.5	0.9	0.1
2001	4,069.8	520.4	2,179.8	41.8	284.7	615.9	27.9	357.5	1.4	40.4
2002	4,304.7	414.8	2,524.9	109.1	241.1	583.3	29.1	388.8	2.0	11.7
2003	4,266.5	609.7	1,817.0	145.7	686.9	578.4	70.7	333.9	0.8	23.4
2004	3,994.2	961.3	1,442.0	188.3	354.3	603.9	164.5	252.4	15.8	11.7
2005	3,771.1	859.3	1,381.4	125.7	423.0	558.3	134.6	218.0	55.2	15.6
2006	2,124.8	662.8	265.8	82.7	262.5	519.3	127.3	201.6	2.6	0.3
2007	2,168.4	593.4	401.4	27.6	265.6	498.4	79.7	296.2	0.0	6.1
2008	1,943.9	494.0	449.0	175.6	210.2	334.4	23.7	253.8	*	3.1
2009	3,668.0	804.7	396.3	127.7	607.0	706.5	154.4	868.2	1.2	2.0
2010	6,613.3	1,953.3	1,751.2	167.7	1,532.6	491.4	245.9	465.3	2.0	4.0

TABLE 132. Federal obligations for R&D plant, by performer: FYs 1967–2013

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2011	4,170.7	846.5	2,030.0	118.3	286.0	242.9	141.3	491.0	0.2	14.6
2012 (preliminary)	4,373.1	803.3	2,242.8	133.8	318.7	249.6	154.9	452.9	0.2	16.9
2013 (preliminary)	4,704.7	920.6	2,425.6	130.5	304.6	317.7	158.4	429.6	0.2	17.6

* = amount greater than $0 but less than $50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D plant by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D plant by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1992–2002
(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All fields	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7
Computer sciences and mathematics	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7
Computer sciences	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2
Mathematics	318.7	290.8	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0
Other computer sciences and mathematics	69.9	108.5	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5
Engineering	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9
Aeronautical engineering	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1
Astronautical engineering	630.4	494.0	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8
Chemical engineering	297.5	245.5	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6
Civil engineering	330.2	252.0	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7
Electrical engineering	759.0	881.5	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7
Mechanical engineering	337.2	466.9	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9
Metallurgy and materials engineering	727.2	695.7	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5
Other engineering	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6
Environmental sciences	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3
Atmospheric sciences	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5
Geological sciences	735.7	797.9	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9
Oceanography	458.9	467.4	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6
Other environmental sciences	245.8	359.2	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2
Life sciences	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8
Agricultural sciences	687.5	712.9	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6
Biological sciences (excluding environmental biology)	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5
Environmental biology	511.0	556.5	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9
Medical sciences	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4
Other life sciences	367.0	308.3	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4
Physical sciences	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2
Astronomy	739.1	686.3	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5
Chemistry	896.2	843.2	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7
Physics	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4
Other physical sciences	225.7	259.2	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6
Psychology	298.1	550.7	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9
Biological aspects	34.6	37.2	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6
Social aspects	100.9	134.7	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5
Other psychological sciences	162.6	378.7	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8
Social sciences	689.7	674.9	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	983.0
Anthropology	14.1	13.7	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4
Economics	211.6	204.7	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3
Political science	22.6	29.2	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1992–2002

(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Sociology	80.7	76.7	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1
Other social sciences	360.8	350.5	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0	624.7
Other sciences nec	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8	1,334.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; NIH reclassified all its development activities as research.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 134. Federal obligations for research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All fields	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,691.8	63,728.0	58,023.7	58,049.8	59,969.2
Computer sciences and mathematics	2,672.5	2,949.4	2,983.4	2,814.9	2,945.7	3,047.3	3,611.8	3,411.8	3,374.3	3,450.6	3,751.0
Computer sciences	2,052.8	2,144.9	2,157.1	1,987.8	2,077.7	2,053.0	2,422.2	2,362.0	2,191.7	NA	NA
Mathematics	452.9	617.8	686.6	669.2	708.6	782.9	927.9	835.5	891.6	NA	NA
Other computer sciences and mathematics	166.7	186.7	139.7	157.9	159.4	211.4	261.6	214.4	291.0	NA	NA
Engineering	8,405.1	8,866.4	8,552.9	8,678.7	8,989.7	8,975.5	10,285.0	11,081.2	10,057.2	9,873.1	10,742.6
Aeronautical engineering	1,732.2	1,640.8	1,276.3	1,229.2	929.2	810.3	907.8	830.1	845.1	NA	NA
Astronautical engineering	702.5	664.9	494.1	476.3	341.0	288.1	370.2	389.9	410.1	NA	NA
Chemical engineering	327.9	318.8	283.8	294.6	353.8	345.6	447.1	509.7	474.5	NA	NA
Civil engineering	339.6	330.3	279.2	352.7	461.5	488.0	678.9	699.8	617.1	NA	NA
Electrical engineering	950.0	890.9	1,033.5	1,035.5	1,027.5	1,046.5	1,254.0	1,360.9	1,235.5	NA	NA
Mechanical engineering	298.4	301.9	323.7	298.2	337.2	292.4	314.3	363.6	309.8	NA	NA
Metallurgy and materials engineering	1,083.7	1,037.2	1,184.1	1,250.0	1,479.8	1,623.9	1,721.6	1,758.8	1,621.3	NA	NA
Other engineering	2,970.8	3,681.6	3,678.3	3,742.3	4,059.8	4,080.8	4,591.2	5,168.4	4,543.8	NA	NA
Environmental sciences	3,740.9	3,741.6	3,502.6	3,430.6	3,170.5	2,984.6	3,751.1	3,338.9	3,207.2	3,079.0	3,140.3
Atmospheric sciences	1,259.4	1,259.7	1,185.1	1,166.9	964.6	884.5	1,018.1	953.8	953.9	NA	NA
Geological sciences	725.0	704.5	673.5	653.9	638.0	517.5	754.0	530.4	597.8	NA	NA
Oceanography	846.1	809.1	771.5	745.8	787.8	788.7	834.2	743.7	723.7	NA	NA
Other environmental sciences	910.3	968.4	872.5	864.0	780.1	793.9	1,144.8	1,111.0	931.7	NA	NA
Life sciences	27,772.2	27,728.5	28,127.8	27,927.7	29,463.6	28,918.8	33,267.1	33,909.1	29,408.6	29,061.1	29,151.5
Agricultural sciences	1,046.0	1,086.8	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	1,131.9	1,085.0	NA	NA
Biological sciences (excluding environmental biology)	18,643.5	13,091.9	13,351.6	13,690.8	14,429.7	14,443.1	17,376.8	17,213.9	15,178.3	NA	NA
Environmental biology	717.9	670.0	699.0	686.6	757.2	858.0	963.7	816.4	854.9	NA	NA
Medical sciences	6,160.3	10,898.8	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	11,677.0	10,161.1	NA	NA
Other life sciences	1,204.6	1,981.0	2,120.9	1,849.9	2,346.5	2,210.1	2,413.6	3,070.0	2,129.4	NA	NA
Physical sciences	5,021.6	5,211.1	5,493.7	5,351.1	5,136.1	5,072.6	5,821.1	5,870.8	5,426.6	5,574.5	5,949.6
Astronomy	871.8	920.8	884.9	792.5	655.9	527.9	671.5	559.9	555.4	NA	NA
Chemistry	1,137.9	1,191.0	1,197.5	1,126.4	1,149.9	1,148.4	1,274.0	1,310.6	1,106.3	NA	NA
Physics	2,500.2	2,598.6	3,041.3	3,001.8	2,939.2	2,968.9	3,356.1	3,470.1	3,268.8	NA	NA
Other physical sciences	511.7	500.8	370.0	430.5	391.1	427.4	519.6	530.2	496.1	NA	NA
Psychology	1,104.4	1,854.9	1,891.8	1,747.3	1,837.9	1,740.8	2,086.3	2,155.6	1,886.8	1,914.2	1,923.4
Biological aspects	23.2	6.0	2.3	3.0	3.8	21.8	2.1	13.6	16.4	NA	NA
Social aspects	50.6	51.7	46.6	40.9	36.8	18.8	50.8	74.5	54.5	NA	NA
Other psychological sciences	1,030.6	1,797.2	1,842.8	1,703.4	1,797.3	1,700.3	2,033.4	2,067.4	1,816.0	NA	NA
Social sciences	1,025.8	1,089.6	1,097.1	1,123.9	1,147.1	977.0	1,156.7	1,197.3	1,262.4	1,202.9	1,252.9
Anthropology	14.5	15.0	18.0	15.1	16.1	17.4	29.4	24.7	26.1	NA	NA
Economics	234.5	204.6	215.9	202.6	250.0	212.3	230.1	274.0	398.6	NA	NA
Political science	18.5	18.7	32.7	44.6	41.2	29.2	24.6	14.2	12.0	NA	NA

TABLE 134. Federal obligations for research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Sociology	124.7	120.1	70.2	144.2	217.6	95.2	138.8	132.3	132.5	NA	NA
Other social sciences	633.6	731.2	760.4	717.4	622.2	622.9	733.8	752.0	693.2	NA	NA
Other sciences nec	1,329.3	1,916.3	2,088.9	2,461.3	1,403.1	2,177.1	3,712.7	2,763.2	3,400.5	3,894.5	4,057.9

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 135. Federal obligations for basic research, by detailed field of science and engineering: FYs 1992–2002

(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All fields	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3
Computer sciences and mathematics	481.4	511.3	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7
Computer sciences	247.7	284.3	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9
Mathematics	228.2	221.8	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6
Other computer sciences and mathematics	5.5	5.1	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2
Engineering	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9
Aeronautical engineering	245.1	246.2	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1
Astronautical engineering	94.4	53.6	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1
Chemical engineering	105.0	72.8	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3
Civil engineering	53.4	38.7	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5
Electrical engineering	165.4	203.1	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0
Mechanical engineering	113.9	142.6	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2
Metallurgy and materials engineering	273.6	241.3	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8
Other engineering	199.2	209.1	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8
Environmental sciences	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3
Atmospheric sciences	435.2	635.1	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1
Geological sciences	526.5	555.3	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0
Oceanography	210.0	207.2	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0
Other environmental sciences	131.9	135.9	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1
Life sciences	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1
Agricultural sciences	334.2	342.2	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6
Biological sciences (excluding environmental biology)	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7
Environmental biology	201.6	223.2	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5
Medical sciences	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0
Other life sciences	193.1	120.1	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3
Physical sciences	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9
Astronomy	729.7	663.4	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3
Chemistry	556.6	543.7	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8
Physics	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7
Other physical sciences	57.6	99.4	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0
Psychology	122.6	246.8	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6
Biological aspects	14.3	18.1	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8
Social aspects	16.9	16.0	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8
Other psychological sciences	91.4	212.7	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0
Social sciences	139.9	194.1	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7
Anthropology	11.0	10.0	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2
Economics	39.3	46.0	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3
Political science	6.4	6.4	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7

TABLE 135. Federal obligations for basic research, by detailed field of science and engineering: FYs 1992–2002

(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Sociology	10.2	11.1	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5
Other social sciences	72.9	120.6	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0
Other sciences nec	399.4	510.1	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; NIH reclassified all its development activities as research.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All fields	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	29,426.2	30,065.7
Computer sciences and mathematics	1,120.2	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,788.5	1,821.6	1,965.4
Computer sciences	730.5	712.2	658.1	670.9	708.3	733.8	978.1	873.6	936.4	NA	NA
Mathematics	359.8	479.1	542.5	518.6	561.0	645.0	804.3	716.6	741.3	NA	NA
Other computer sciences and mathematics	30.0	47.9	27.8	18.7	24.2	28.6	79.0	73.0	110.7	NA	NA
Engineering	1,913.1	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,168.0	3,255.0	3,422.5
Aeronautical engineering	255.8	304.2	317.7	242.7	195.1	149.5	185.3	151.3	153.2	NA	NA
Astronautical engineering	59.5	67.1	72.9	57.8	43.8	32.0	35.3	31.6	32.9	NA	NA
Chemical engineering	71.5	68.6	66.8	67.6	109.0	111.6	167.6	142.7	182.7	NA	NA
Civil engineering	51.1	55.6	62.2	67.4	123.6	126.2	185.5	155.2	149.2	NA	NA
Electrical engineering	226.3	199.6	212.6	205.1	246.4	221.4	297.4	295.0	281.0	NA	NA
Mechanical engineering	96.3	89.6	76.7	70.5	77.6	65.8	84.3	80.3	82.3	NA	NA
Metallurgy and materials engineering	581.0	592.0	665.9	811.4	959.9	993.2	1,112.6	1,091.4	1,077.2	NA	NA
Other engineering	571.7	895.0	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	1,209.5	NA	NA
Environmental sciences	1,899.5	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,796.4	1,797.4	1,912.1
Atmospheric sciences	668.1	726.8	743.6	666.3	583.6	523.2	650.5	596.9	612.5	NA	NA
Geological sciences	461.9	482.0	470.3	444.6	426.8	303.0	429.7	332.6	396.4	NA	NA
Oceanography	442.2	452.6	431.1	416.5	436.9	433.6	549.2	471.6	483.0	NA	NA
Other environmental sciences	327.3	361.5	321.1	322.2	280.5	333.3	513.5	386.3	304.5	NA	NA
Life sciences	14,765.3	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,373.4	15,157.8	15,148.2
Agricultural sciences	528.3	503.7	511.2	514.3	532.9	494.7	531.4	571.4	547.0	NA	NA
Biological sciences (excluding environmental biology)	10,471.5	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	8,277.1	NA	NA
Environmental biology	324.0	329.1	339.0	344.3	350.8	368.2	466.6	435.4	434.6	NA	NA
Medical sciences	2,919.1	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	5,085.5	NA	NA
Other life sciences	522.3	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	1,029.2	NA	NA
Physical sciences	3,454.0	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,815.0	3,885.9	4,010.0
Astronomy	696.0	765.4	778.4	686.9	592.6	482.5	617.7	504.2	498.8	NA	NA
Chemistry	748.6	776.0	764.0	720.7	732.8	725.8	835.4	827.7	774.3	NA	NA
Physics	1,820.6	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	2,275.2	NA	NA
Other physical sciences	188.8	216.7	200.4	197.1	206.8	208.2	297.5	275.1	266.7	NA	NA
Psychology	543.8	979.2	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	978.8	981.9	990.9
Biological aspects	10.6	0.9	0.3	0.7	1.5	0.5	1.9	10.1	13.4	NA	NA
Social aspects	4.1	5.0	4.3	4.9	5.4	6.6	18.5	18.4	16.9	NA	NA
Other psychological sciences	529.2	973.2	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	948.5	NA	NA
Social sciences	352.8	419.3	391.4	381.0	361.3	330.0	432.2	358.9	371.0	368.2	376.2
Anthropology	12.7	12.9	15.2	14.1	15.3	15.2	27.7	24.3	25.8	NA	NA
Economics	48.2	48.0	51.3	46.3	52.3	43.7	52.0	44.4	54.5	NA	NA
Political science	6.0	6.7	10.5	11.0	8.5	16.5	13.0	9.6	9.3	NA	NA

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Sociology	48.7	48.6	17.9	19.2	40.8	14.0	33.3	29.5	35.5	NA	NA
Other social sciences	237.1	303.1	296.5	290.3	244.3	240.6	306.1	251.1	245.9	NA	NA
Other sciences nec	702.7	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	2,022.6	2,158.5	2,240.4

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 137. Federal obligations for applied research, by detailed field of science and engineering: FYs 1992–2002

(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All fields	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4
Computer sciences and mathematics	678.9	714.1	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0
Computer sciences	524.0	541.8	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3
Mathematics	90.5	68.9	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4
Other computer sciences and mathematics	64.3	103.4	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3
Engineering	3,727.1	4,292.0	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0
Aeronautical engineering	629.5	946.8	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0
Astronautical engineering	536.0	440.4	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6
Chemical engineering	192.5	172.7	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2
Civil engineering	276.9	213.3	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1
Electrical engineering	593.6	678.4	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6
Mechanical engineering	223.4	324.3	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7
Metallurgy and materials engineering	453.6	454.3	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8
Other engineering	821.6	1,061.7	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9
Environmental sciences	904.0	1,075.0	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0
Atmospheric sciences	332.0	349.0	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4
Geological sciences	209.2	242.6	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9
Oceanography	248.9	260.2	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6
Other environmental sciences	113.8	223.3	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1
Life sciences	4,068.8	4,483.3	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7
Agricultural sciences	353.4	370.8	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1
Biological sciences (excluding environmental biology)	1,453.2	1,567.4	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8
Environmental biology	309.4	333.3	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4
Medical sciences	1,778.9	2,023.5	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4
Other life sciences	173.9	188.2	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0
Physical sciences	1,487.7	1,519.8	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4
Astronomy	9.4	22.8	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2
Chemistry	339.6	299.5	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9
Physics	970.7	1,037.7	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6
Other physical sciences	168.1	159.8	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6
Psychology	175.6	303.9	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3
Biological aspects	20.3	19.1	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8
Social aspects	84.1	118.7	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7
Other psychological sciences	71.2	166.1	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8
Social sciences	549.8	480.8	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2	621.3
Anthropology	3.1	3.7	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2
Economics	172.3	158.7	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1
Political science	16.1	22.8	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7

TABLE 137. Federal obligations for applied research, by detailed field of science and engineering: FYs 1992–2002

(Dollars in millions)

Field	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Sociology	70.5	65.6	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6
Other social sciences	287.9	229.9	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0	348.7
Other sciences nec	408.8	622.4	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1	618.8

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; NIH reclassified all its development activities as research.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 138. Federal obligations for applied research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
All fields	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	28,623.6	29,903.5
Computer sciences and mathematics	1,552.2	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,750.3	1,748.6	1,585.9	1,629.1	1,785.6
Computer sciences	1,322.3	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	1,444.1	1,488.4	1,255.2	NA	NA
Mathematics	93.2	138.7	144.1	150.5	147.5	137.8	123.6	118.9	150.3	NA	NA
Other computer sciences and mathematics	136.7	138.9	111.9	139.3	135.2	182.8	182.7	141.4	180.4	NA	NA
Engineering	6,492.0	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,878.8	7,590.0	6,889.2	6,618.1	7,320.1
Aeronautical engineering	1,476.5	1,336.6	958.6	986.5	734.0	660.8	722.5	678.8	691.9	NA	NA
Astronautical engineering	643.0	597.8	421.2	418.6	297.2	256.1	334.9	358.3	377.2	NA	NA
Chemical engineering	256.4	250.2	217.0	227.0	244.8	234.0	279.4	366.9	291.8	NA	NA
Civil engineering	288.5	274.7	217.1	285.2	337.9	361.8	493.4	544.6	467.9	NA	NA
Electrical engineering	723.7	691.3	820.9	830.3	781.1	825.1	956.6	1,065.9	954.4	NA	NA
Mechanical engineering	202.2	212.3	247.0	227.7	259.5	226.6	230.1	283.3	227.5	NA	NA
Metallurgy and materials engineering	502.7	445.2	518.2	438.6	519.9	630.7	609.0	667.4	544.0	NA	NA
Other engineering	2,399.1	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	3,252.9	3,624.7	3,334.4	NA	NA
Environmental sciences	1,841.4	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,608.2	1,551.5	1,410.7	1,281.6	1,228.2
Atmospheric sciences	591.3	532.9	441.5	500.7	380.9	361.3	367.6	356.9	341.4	NA	NA
Geological sciences	263.1	222.5	203.2	209.3	211.2	214.5	324.3	197.7	201.4	NA	NA
Oceanography	403.9	356.5	340.4	329.4	350.9	355.1	285.0	272.1	240.7	NA	NA
Other environmental sciences	583.0	606.9	551.4	541.8	499.6	460.6	631.3	724.8	627.2	NA	NA
Life sciences	13,007.0	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	15,679.9	16,160.8	14,035.2	13,903.3	14,003.3
Agricultural sciences	517.7	583.1	583.0	593.9	606.5	525.6	589.0	560.4	538.0	NA	NA
Biological sciences (excluding environmental biology)	8,172.0	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	7,796.5	6,901.2	NA	NA
Environmental biology	393.8	340.8	360.0	342.3	406.4	489.9	497.0	380.9	420.3	NA	NA
Medical sciences	3,241.2	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	5,890.1	5,075.6	NA	NA
Other life sciences	682.3	1,023.9	1,034.2	928.2	1,166.3	1,088.6	1,172.1	1,532.9	1,100.1	NA	NA
Physical sciences	1,567.6	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,700.1	1,886.7	1,611.6	1,688.6	1,939.6
Astronomy	175.8	155.4	106.5	105.5	63.3	45.4	53.8	55.7	56.6	NA	NA
Chemistry	389.3	415.0	433.5	405.7	417.1	422.6	438.6	482.9	332.0	NA	NA
Physics	679.6	694.0	1,045.4	1,091.0	926.9	982.4	985.7	1,093.0	993.6	NA	NA
Other physical sciences	322.9	284.1	169.6	233.4	184.3	219.2	222.0	255.1	229.4	NA	NA
Psychology	560.6	875.6	851.6	802.4	859.1	804.8	985.9	1,026.4	908.1	932.3	932.5
Biological aspects	12.7	5.0	2.0	2.3	2.3	21.2	0.2	3.5	3.0	NA	NA
Social aspects	46.5	46.6	42.3	36.0	31.4	12.2	32.3	56.2	37.6	NA	NA
Other psychological sciences	501.5	824.0	807.3	764.1	825.3	771.4	953.3	966.6	867.5	NA	NA
Social sciences	673.0	670.3	705.8	742.9	785.9	647.0	724.5	838.4	891.4	834.7	876.7
Anthropology	1.8	2.1	2.8	1.0	0.8	2.2	1.6	0.4	0.3	NA	NA
Economics	186.2	156.7	164.6	156.3	197.7	168.6	178.1	229.6	344.1	NA	NA
Political science	12.5	12.0	22.2	33.6	32.7	12.7	11.6	4.7	2.7	NA	NA

TABLE 138. Federal obligations for applied research, by detailed field of science and engineering: FYs 2003–13

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	Preliminary 2012	Preliminary 2013
Sociology	76.0	71.5	52.2	124.9	176.8	81.2	105.5	102.8	97.0	NA	NA
Other social sciences	396.5	428.0	463.9	427.1	377.9	382.2	427.7	500.9	447.3	NA	NA
Other sciences nec	626.6	880.5	861.4	1,074.9	716.7	986.2	1,484.8	1,130.2	1,377.9	1,736.0	1,817.5

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. Between FY 2006 and FY 2007, the National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 139. Federal obligations for research and development for selected agencies, by state and other locations: FYs 1992–2002

(Dollars in millions)

State or location	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All locations	64,089.7	65,743.8	65,820.1	66,700.1	66,292.4	68,510.2	70,710.4	73,798.2	74,301.3	82,618.0	91,816.0
Alabama	2,151.7	2,149.4	1,819.2	1,931.3	2,178.8	2,213.7	2,013.3	1,807.0	1,670.1	2,456.8	2,734.8
Alaska	93.0	92.7	157.3	96.9	93.3	99.9	107.2	115.0	155.2	254.4	299.9
Arizona	638.2	535.3	800.2	902.3	706.7	732.1	993.5	1,116.9	1,151.9	1,881.0	2,279.2
Arkansas	68.8	79.2	88.9	97.7	148.2	95.3	97.4	106.4	116.3	183.9	141.3
California	15,999.1	14,883.7	11,250.6	12,600.2	12,658.1	13,730.9	12,222.6	15,600.1	14,819.4	13,001.7	19,198.5
Colorado	1,479.2	1,343.4	1,356.4	1,049.2	1,277.6	1,340.2	1,336.3	1,438.7	1,398.9	1,450.6	1,728.4
Connecticut	578.3	522.2	733.5	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4	2,816.7
Delaware	43.1	56.2	50.4	57.7	64.9	49.0	45.2	52.3	69.9	83.5	80.6
District of Columbia	2,185.2	2,488.8	2,483.6	2,755.4	2,574.1	2,232.3	2,229.8	2,451.6	2,443.1	2,776.0	3,145.6
Florida	2,832.3	2,775.3	2,906.7	2,391.8	2,957.9	3,326.4	2,754.9	2,284.4	2,286.5	2,774.0	2,542.0
Georgia	2,512.6	3,035.3	5,546.4	4,366.0	4,137.8	3,919.9	3,443.9	2,023.2	2,654.0	3,438.3	2,229.0
Hawaii	150.7	113.0	140.3	139.3	147.6	150.7	164.5	198.8	234.3	435.7	428.3
Idaho	299.5	303.7	227.8	211.0	244.6	205.7	212.7	200.7	217.3	209.3	235.5
Illinois	921.9	963.8	1,088.6	1,107.4	1,094.3	1,140.2	1,160.1	1,316.1	1,496.8	1,825.1	1,728.6
Indiana	367.0	513.6	403.6	426.3	439.8	410.4	377.7	413.9	512.8	568.8	537.6
Iowa	194.7	215.8	223.8	212.1	213.4	228.2	235.8	264.1	275.6	361.5	463.4
Kansas	91.2	87.9	84.8	120.4	212.0	255.5	154.8	191.6	224.0	306.7	290.5
Kentucky	71.7	86.7	90.1	73.1	78.6	91.3	216.7	146.8	253.5	370.4	321.5
Louisiana	169.6	152.6	210.5	170.1	228.7	211.0	223.6	219.2	249.0	275.8	432.7
Maine	60.6	65.2	82.1	53.1	56.7	68.7	105.7	150.6	249.8	450.7	255.6
Maryland	5,779.7	7,238.5	6,659.5	7,343.7	6,730.7	7,328.8	7,966.8	8,094.4	8,778.5	9,473.7	7,420.0
Massachusetts	3,227.9	3,551.7	3,201.8	3,337.8	3,192.1	3,437.5	3,113.8	3,129.4	4,552.3	4,499.8	4,920.7
Michigan	876.3	878.0	771.0	683.2	707.9	735.1	755.9	839.8	1,005.0	1,196.4	1,254.1
Minnesota	456.4	445.5	475.1	570.2	679.5	609.4	806.1	885.1	797.3	900.9	1,152.8
Mississippi	255.7	259.8	255.9	209.7	250.6	289.8	280.4	351.6	413.8	415.7	627.7
Missouri	733.5	726.3	2,272.6	1,606.2	1,267.8	1,130.1	933.7	928.7	905.9	927.0	1,241.1
Montana	71.5	69.1	57.0	63.8	63.0	79.3	81.1	95.4	105.4	136.8	113.7
Nebraska	71.1	78.5	86.5	84.7	88.5	83.0	85.0	94.1	104.1	145.2	153.8
Nevada	465.8	406.2	347.7	368.9	253.2	295.0	294.7	279.1	273.3	360.2	342.5
New Hampshire	156.1	237.6	218.9	213.2	268.5	278.7	269.5	291.7	357.8	474.4	312.3
New Jersey	1,646.8	1,422.8	1,385.7	1,297.7	1,272.6	1,318.8	1,459.6	2,661.2	1,979.3	1,674.0	2,109.1
New Mexico	2,211.3	2,309.6	1,894.1	1,959.9	1,955.0	1,933.1	1,892.1	2,068.3	2,210.5	2,890.6	2,877.0
New York	3,058.7	2,538.0	2,678.7	2,585.9	2,504.9	2,471.0	2,560.5	2,689.0	2,989.7	3,528.3	3,820.6
North Carolina	700.7	719.1	734.3	831.6	821.5	900.3	922.7	1,007.5	1,062.5	1,400.9	1,393.0
North Dakota	54.2	50.3	49.6	47.4	46.2	53.0	52.1	59.9	64.1	77.9	104.7
Ohio	1,863.4	1,921.7	1,736.4	1,810.0	1,681.7	1,879.8	5,563.0	3,687.9	2,164.6	3,051.1	2,380.4
Oklahoma	126.1	117.9	142.1	158.7	138.3	160.4	176.2	165.8	232.2	324.0	276.1

TABLE 139. Federal obligations for research and development for selected agencies, by state and other locations: FYs 1992–2002

(Dollars in millions)

State or location	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Oregon	226.5	229.4	279.2	283.4	308.2	319.6	348.6	408.1	468.2	522.6	504.0
Pennsylvania	1,794.4	2,566.5	1,983.4	2,394.2	1,921.2	1,893.7	1,886.5	1,907.1	2,396.1	2,772.1	3,245.0
Puerto Rico	NA	NA	50.5	46.7	51.6	58.9	65.7	72.7	81.0	90.8	135.3
Rhode Island	386.3	495.6	433.8	514.6	583.2	403.8	385.8	391.7	418.0	437.5	501.5
South Carolina	172.1	173.2	198.5	173.2	186.7	166.6	188.7	215.9	249.9	314.3	371.0
South Dakota	23.9	26.9	26.5	26.5	35.0	42.0	46.0	39.0	38.8	54.9	58.7
Tennessee	666.0	674.4	671.3	582.5	558.6	566.2	621.2	684.7	824.3	1,039.5	1,157.2
Texas	2,873.0	2,546.2	3,654.3	4,068.9	3,493.5	3,640.2	4,112.5	3,853.3	3,021.0	3,189.4	3,553.9
Utah	314.0	298.8	324.9	368.8	351.7	319.9	393.4	305.0	306.0	421.6	457.9
Vermont	51.3	62.1	48.5	53.0	47.1	49.9	57.7	61.7	72.0	112.7	136.4
Virginia	3,231.3	3,402.6	3,726.9	3,392.2	4,576.3	4,849.8	4,671.2	5,750.4	4,961.5	4,995.7	6,175.9
Washington	900.5	878.1	963.8	1,131.6	1,152.9	1,226.2	1,246.9	1,306.8	1,345.6	1,725.3	2,023.3
West Virginia	166.4	206.2	212.9	287.9	254.4	193.1	243.3	227.0	235.7	376.1	254.2
Wisconsin	307.7	350.8	358.3	338.5	331.4	332.2	333.0	377.8	420.8	487.9	595.5
Wyoming	41.4	48.2	36.8	35.4	37.5	28.4	33.5	35.2	35.1	37.0	39.6
Offices abroad[a]	24.4	17.8	23.1	48.0	48.5	54.6	18.2	19.8	109.1	30.3	64.4
Other areas[b]	NA	NA	115.8	119.8	121.0	34.3	50.0	60.4	36.9	51.8	152.9

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% or more of the total federal R&D obligations in FY 2011. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 140. Federal obligations for research and development for selected agencies, by state and other locations: FYs 2003–11

(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
All locations	101,366.4	109,732.9	116,585.5	119,302.2	124,900.3	125,091.8	138,977.9	138,156.5	132,793.6
Alabama	3,211.8	3,035.5	3,108.2	2,198.2	2,247.6	2,782.2	3,023.3	3,476.9	5,202.1
Alaska	399.4	461.3	495.1	212.1	264.0	222.2	247.3	235.6	196.5
Arizona	2,385.4	2,643.7	2,958.8	2,459.6	2,422.4	2,449.2	3,141.5	3,425.6	2,917.0
Arkansas	145.4	146.7	165.0	161.8	177.7	145.3	171.2	181.8	178.6
California	20,169.6	19,259.4	19,964.3	26,897.6	26,987.2	19,938.7	26,988.8	27,226.9	22,768.9
Colorado	1,735.0	2,068.0	2,264.9	2,188.7	2,797.5	2,668.1	3,862.3	4,348.3	3,815.5
Connecticut	2,068.0	2,122.5	2,399.6	1,946.6	2,116.8	1,815.4	2,364.5	2,193.5	2,426.0
Delaware	95.4	89.7	94.2	112.7	130.6	144.3	225.2	129.1	114.7
District of Columbia	2,985.5	3,329.4	4,161.8	4,193.2	4,277.7	17,537.2	4,267.9	3,890.1	3,008.0
Florida	2,854.1	3,265.0	2,590.0	3,346.5	4,078.2	2,290.4	3,734.4	3,142.2	2,481.8
Georgia	2,133.0	1,906.5	2,181.8	1,750.8	1,686.2	1,386.0	1,957.6	1,520.0	1,421.8
Hawaii	413.9	488.2	600.3	380.3	379.2	347.8	387.5	389.4	403.6
Idaho	217.8	288.5	290.3	300.0	287.5	355.4	388.0	479.0	430.2
Illinois	1,934.7	1,880.1	2,127.8	2,003.5	2,145.1	2,168.5	2,745.5	2,631.3	2,878.1
Indiana	573.7	556.7	566.8	583.2	596.6	672.0	1,109.2	988.7	903.0
Iowa	499.5	538.3	487.7	548.7	662.4	634.9	683.2	909.1	695.3
Kansas	268.7	287.4	357.8	294.5	317.8	300.4	464.2	347.5	367.8
Kentucky	246.7	251.8	296.3	240.0	222.2	252.5	319.1	287.4	242.0
Louisiana	453.4	446.7	443.7	322.6	419.4	406.1	405.6	330.8	597.3
Maine	166.7	210.3	292.1	229.2	378.8	168.0	194.2	163.1	180.0
Maryland	8,027.3	12,608.6	12,500.8	12,746.6	11,905.8	13,312.7	15,970.5	15,879.0	15,750.6
Massachusetts	5,491.7	5,963.6	6,591.9	6,875.8	7,528.9	6,883.1	9,047.0	8,747.5	7,758.4
Michigan	1,693.1	1,117.8	1,177.0	1,700.3	1,726.1	1,866.5	2,427.4	2,509.7	2,153.4
Minnesota	866.2	831.3	768.3	1,241.6	1,386.8	1,393.0	1,550.6	1,062.6	949.3
Mississippi	1,181.0	1,598.7	438.2	554.9	433.9	435.2	384.6	421.6	588.1
Missouri	1,349.5	3,058.8	4,201.7	1,315.6	1,220.6	1,111.3	1,284.6	1,151.0	1,193.3
Montana	131.2	188.8	182.1	151.3	653.6	159.5	171.5	139.2	181.7
Nebraska	168.0	210.5	193.1	178.1	230.1	204.6	220.2	239.8	262.1
Nevada	418.9	555.0	593.3	436.2	321.1	312.6	558.2	379.8	478.1
New Hampshire	511.9	422.1	513.8	400.4	339.9	294.3	458.4	350.5	406.0
New Jersey	2,087.6	2,273.7	2,524.8	2,172.7	2,192.0	2,192.7	2,492.2	2,853.0	2,582.7
New Mexico	3,090.1	3,363.2	3,593.4	3,315.0	3,478.0	3,502.9	3,695.6	3,338.0	3,456.2
New York	4,382.5	4,505.3	5,320.1	5,368.2	5,367.6	4,651.2	6,242.0	5,602.2	5,042.1
North Carolina	1,617.3	1,683.6	1,806.1	1,771.4	1,828.4	1,772.6	2,021.8	2,151.2	2,060.3
North Dakota	107.3	108.6	117.9	117.9	115.8	98.3	101.2	119.6	117.7
Ohio	2,967.1	2,794.2	2,961.5	2,723.9	3,660.9	2,580.4	4,459.5	4,098.8	3,554.7
Oklahoma	570.2	498.5	400.7	271.1	253.2	260.8	370.0	429.6	462.5
Oregon	514.2	504.8	650.1	510.1	506.4	581.1	635.2	675.3	711.1
Pennsylvania	3,989.3	3,731.1	3,677.4	3,299.7	3,359.9	3,279.4	4,297.6	4,963.4	4,513.0

TABLE 140. Federal obligations for research and development for selected agencies, by state and other locations: FYs 2003–11

(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
Puerto Rico	112.2	100.9	101.4	98.8	85.9	84.9	96.1	94.8	97.4
Rhode Island	565.6	642.1	888.8	622.5	627.8	643.7	679.5	669.8	610.1
South Carolina	454.0	384.3	492.7	373.8	421.7	453.0	661.6	662.2	496.7
South Dakota	54.8	70.0	70.0	75.9	61.9	76.4	79.3	75.0	61.1
Tennessee	1,130.6	1,382.0	1,426.0	1,489.1	1,907.9	1,689.9	2,081.4	2,104.8	1,898.6
Texas	5,414.4	5,506.7	5,187.0	5,914.7	6,692.8	5,029.6	6,031.1	6,896.1	5,475.4
Utah	803.4	1,183.7	1,058.2	845.8	991.3	699.9	1,168.5	1,708.9	1,756.4
Vermont	201.1	417.1	262.6	105.5	108.4	121.0	151.4	142.3	124.4
Virginia	6,709.2	7,298.3	8,746.5	8,994.3	9,088.2	9,282.2	9,381.3	9,111.7	8,292.6
Washington	2,442.2	2,311.3	2,641.2	4,087.1	4,751.1	4,339.5	4,156.7	3,915.5	4,931.4
West Virginia	383.4	315.7	807.5	301.4	219.1	224.6	262.6	312.8	239.8
Wisconsin	658.4	645.9	651.8	635.7	671.4	660.9	885.7	795.6	742.2
Wyoming	43.0	47.6	37.5	36.2	36.6	47.4	65.2	36.7	37.2
Offices abroad[a]	60.9	99.4	96.5	138.0	39.9	86.8	67.8	54.0	35.7
Other areas[b]	211.1	34.1	59.2	62.4	92.5	75.4	141.1	168.4	4,545.1

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and, as of FY 2011, other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency (EPA); the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% or more of the total federal R&D obligations in FY 2011. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, EPA was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 141. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 1992–2002

(Dollars in millions)

State or location	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All locations	2,962.9	3,054.5	2,196.2	2,210.8	1,736.6	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7
Alabama	346.1	368.2	94.1	44.1	48.9	43.4	38.6	66.6	210.6	202.6	176.1
Alaska	0.8	1.0	88.0	1.4	0.2	3.0	0.0	0.0	0.3	0.4	281.4
Arizona	7.9	16.9	20.8	42.7	3.0	1.9	7.5	1.1	4.1	2.7	6.7
Arkansas	4.4	3.3	3.9	3.9	12.5	14.1	18.5	3.0	3.2	4.7	13.0
California	356.1	469.6	209.5	414.0	341.2	418.9	426.4	467.7	503.0	570.3	523.9
Colorado	55.6	30.0	36.9	31.2	28.4	52.6	63.3	43.2	34.6	54.5	118.3
Connecticut	2.6	14.4	3.8	5.2	3.6	5.2	2.6	2.3	91.0	55.6	51.6
Delaware	0.1	2.1	1.1	1.9	2.0	2.4	0.8	1.1	0.3	0.1	1.0
District of Columbia	17.8	13.3	11.2	3.0	4.6	7.0	13.2	53.7	30.0	26.5	52.8
Florida	143.1	73.5	101.7	40.6	65.3	66.1	66.4	56.2	238.3	180.0	196.1
Georgia	6.4	3.5	5.3	12.4	4.6	5.2	3.8	8.5	9.2	20.1	18.0
Hawaii	6.5	19.3	14.3	0.5	1.7	3.0	1.5	9.3	1.8	2.8	6.4
Idaho	39.6	27.4	12.5	8.9	19.2	26.2	11.5	8.2	27.2	18.4	12.7
Illinois	183.9	201.6	208.5	190.0	147.3	134.3	152.6	151.5	143.1	167.2	100.7
Indiana	8.4	22.6	4.1	4.8	15.2	7.9	3.1	6.7	12.2	18.0	11.9
Iowa	5.2	7.9	10.1	15.5	10.1	8.9	7.2	6.2	8.1	16.6	16.3
Kansas	2.5	10.1	10.6	1.2	1.5	1.4	0.6	4.0	3.0	3.0	5.6
Kentucky	NA	NA	3.9	4.7	2.4	0.4	NA	0.1	2.6	0.8	0.9
Louisiana	26.2	29.5	21.0	21.5	26.5	18.6	30.4	28.8	11.7	16.5	35.9
Maine	1.5	1.0	1.9	0.7	0.2	0.3	1.6	1.5	1.5	7.5	8.1
Maryland	229.7	264.6	196.2	390.3	240.2	299.6	304.2	302.2	352.4	107.5	210.3
Massachusetts	20.2	22.3	15.8	23.1	14.1	12.1	10.7	20.3	41.6	58.9	24.2
Michigan	9.1	21.7	4.5	3.7	6.3	5.0	3.0	5.9	5.9	17.6	5.1
Minnesota	2.5	3.0	17.2	5.1	6.3	2.6	3.5	7.2	3.7	7.5	8.2
Mississippi	41.6	42.2	31.9	36.5	32.8	38.8	47.6	26.8	20.7	31.0	43.4
Missouri	1.7	1.5	4.7	4.6	4.4	5.7	4.0	1.8	3.1	11.4	5.2
Montana	2.7	1.6	3.6	4.9	5.8	9.6	2.0	1.4	2.4	7.5	8.0
Nebraska	5.7	1.0	1.0	2.3	1.0	0.8	0.9	0.9	3.4	12.2	4.8
Nevada	59.7	50.2	26.9	38.5	16.1	1.0	2.9	14.7	6.2	14.6	16.5
New Hampshire	4.0	0.8	0.3	NA	0.6	2.3	0.3	0.5	4.1	2.6	1.3
New Jersey	39.0	53.2	45.3	34.9	26.7	29.9	32.1	30.8	46.4	39.2	29.2
New Mexico	164.7	181.4	152.6	133.8	77.5	124.8	113.9	99.8	122.2	159.7	127.8
New York	194.5	177.7	186.1	159.1	164.6	152.2	122.1	89.0	113.6	138.2	129.2
North Carolina	6.8	36.6	40.0	25.7	20.5	27.4	30.4	38.0	7.7	14.3	8.6
North Dakota	7.4	5.5	5.8	4.9	1.5	3.7	3.2	2.3	1.1	1.5	1.7
Ohio	122.2	64.1	128.1	147.5	67.5	49.7	91.2	108.1	68.7	84.4	56.3
Oklahoma	4.1	1.0	1.9	2.8	3.2	6.7	2.6	7.8	3.5	2.7	4.3

TABLE 141. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 1992–2002

(Dollars in millions)

State or location	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Oregon	1.8	13.8	6.5	5.2	8.1	5.9	3.2	8.9	4.0	16.2	7.3
Pennsylvania	52.0	95.7	72.2	35.4	51.3	40.8	17.9	28.0	63.3	39.9	34.8
Puerto Rico	NA	NA	0.4	0.3	0.3	0.4	2.2	1.3	3.2	1.5	4.5
Rhode Island	1.9	0.6	0.6	7.3	3.9	4.6	9.7	15.4	2.9	1.3	18.5
South Carolina	4.1	4.9	14.7	2.7	2.2	10.3	1.0	18.5	18.2	6.3	6.7
South Dakota	1.5	1.0	5.6	4.3	3.0	0.4	0.6	0.2	2.2	0.4	3.1
Tennessee	48.1	29.5	77.4	37.1	22.9	38.7	28.8	135.4	128.9	288.3	333.3
Texas	465.7	429.1	56.6	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2
Utah	1.5	3.5	6.7	4.6	2.6	2.8	1.5	1.2	1.8	3.0	8.4
Vermont	NA	0.1	0.6	NA	2.2	0.5	0.1	0.5	2.1	0.3	0.1
Virginia	172.4	131.0	126.6	81.1	69.7	56.6	53.7	61.3	60.6	114.4	99.9
Washington	54.3	71.6	71.5	64.3	71.8	64.8	12.1	14.9	12.1	20.5	18.6
West Virginia	9.7	8.4	4.8	5.4	2.6	2.8	12.6	25.0	18.4	18.6	8.7
Wisconsin	10.2	8.0	24.6	9.6	3.0	2.0	1.1	3.2	10.5	11.5	23.9
Wyoming	1.8	0.6	1.8	1.5	0.5	0.6	0.7	0.3	0.9	0.3	0.6
Offices abroad[a]	0.6	0.6	0.7	1.3	0.5	0.3	3.9	0.5	0.7	0.6	0.5
Other areas[b]	NA	NA	*	1.1	8.1	3.9	0.9	6.2	2.4	2.2	NA

* = amount greater than $0 but less than $50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% of the federal R&D plant obligations in FY 2011. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

TABLE 142. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 2003–11
(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
All locations	4,239.8	3,979.3	3,749.1	2,093.1	2,111.0	1,893.3	3,591.3	6,563.3	4,100.5
Alabama	92.5	37.3	27.1	6.4	1.4	2.6	4.2	98.1	93.2
Alaska	133.9	126.8	15.8	4.8	7.6	3.6	173.5	57.8	6.3
Arizona	38.3	27.7	6.7	3.6	62.6	5.7	20.5	194.9	30.3
Arkansas	6.0	7.7	0.7	1.7	8.6	6.1	8.9	28.5	6.4
California	519.3	987.7	972.4	427.7	404.8	291.0	475.5	1,087.8	997.4
Colorado	97.1	82.9	89.3	97.7	183.8	115.9	279.5	300.0	140.6
Connecticut	48.7	46.8	87.8	4.3	1.9	5.6	3.1	123.2	93.7
Delaware	0.9	0.6	0.4	*	*	0.4	0.5	13.5	0.4
District of Columbia	18.7	118.1	33.3	105.8	73.4	76.7	180.4	364.9	236.9
Florida	173.0	120.9	107.0	1.6	11.4	12.9	56.7	140.7	90.4
Georgia	7.5	16.4	98.7	128.7	131.7	36.0	53.8	58.5	45.4
Hawaii	1.9	7.0	43.8	5.6	8.0	3.1	25.3	38.1	23.3
Idaho	7.0	22.6	23.1	7.0	8.7	5.9	16.6	25.2	30.9
Illinois	122.1	122.9	104.7	84.6	89.2	61.7	233.8	281.3	115.4
Indiana	12.3	7.7	4.2	2.7	4.1	3.7	7.5	34.9	6.6
Iowa	30.0	107.0	32.0	62.3	64.4	11.3	11.1	28.3	7.1
Kansas	1.9	1.3	10.2	0.3	1.6	0.4	2.9	12.7	4.4
Kentucky	3.1	7.4	25.2	7.2	0.8	5.6	2.5	21.8	4.6
Louisiana	56.8	17.2	15.4	36.7	6.2	2.8	26.7	28.4	14.9
Maine	0.9	4.8	3.8	3.8	1.8	0.8	6.3	1.4	1.5
Maryland	106.0	472.7	515.1	250.5	157.1	262.1	238.7	1,137.3	404.9
Massachusetts	233.4	21.6	90.5	49.1	32.7	13.9	48.8	102.7	30.8
Michigan	17.0	8.0	3.3	3.5	2.6	1.3	11.3	45.0	3.5
Minnesota	4.2	5.7	4.3	0.8	4.7	0.9	8.5	24.1	24.0
Mississippi	24.4	11.0	11.1	20.5	19.4	3.1	25.3	77.6	22.0
Missouri	21.2	4.7	11.3	6.3	1.3	1.9	5.8	30.5	4.2
Montana	6.5	3.4	6.3	6.5	1.4	0.9	2.0	23.3	0.4
Nebraska	0.8	1.5	*	0.7	0.7	1.0	0.9	22.2	0.8
Nevada	12.4	7.6	7.2	40.9	32.5	4.3	1.2	1.8	4.1
New Hampshire	2.8	6.6	3.4	4.0	1.1	0.8	2.1	11.1	1.6
New Jersey	72.5	50.5	51.0	56.9	90.2	53.3	82.8	74.5	40.0
New Mexico	187.9	269.4	183.3	110.8	29.2	184.6	108.7	190.5	96.8
New York	89.2	71.3	97.1	100.8	80.4	81.7	326.0	309.7	210.5
North Carolina	26.2	21.0	8.5	4.1	3.0	4.9	12.2	36.7	8.8
North Dakota	0.2	NA	4.4	0.3	NA	0.7	2.0	5.9	0.4
Ohio	26.4	19.5	26.1	17.0	21.5	16.7	24.3	100.5	55.2
Oklahoma	14.4	17.6	4.2	0.9	2.5	12.8	5.7	19.0	13.1
Oregon	8.3	7.1	4.0	2.8	4.1	2.9	4.9	35.9	18.1
Pennsylvania	79.6	26.8	24.7	17.4	12.9	35.0	37.8	127.1	15.2
Puerto Rico	1.9	1.6	1.1	0.4	1.6	4.4	3.6	15.9	1.5
Rhode Island	0.2	12.0	2.4	1.0	0.1	0.8	4.7	6.1	2.6
South Carolina	10.0	8.6	20.7	3.5	7.3	11.4	14.7	24.5	19.0
South Dakota	1.1	10.8	2.3	0.5	0.5	0.3	2.2	2.6	0.8
Tennessee	309.6	199.7	198.9	111.8	143.6	188.8	330.1	371.6	315.3
Texas	1,370.4	568.7	486.8	42.1	7.5	20.6	39.9	430.3	428.7
Utah	8.3	1.1	4.3	0.5	3.9	1.9	83.7	12.1	1.5
Vermont	NA	0.6	0.7	0.3	0.2	0.8	0.6	3.2	1.4
Virginia	147.3	179.3	170.4	129.0	283.9	268.9	268.6	215.1	344.7
Washington	30.6	32.4	34.3	30.0	29.6	13.5	215.2	89.0	48.8
West Virginia	6.0	11.3	10.2	20.7	16.0	13.1	52.2	35.7	21.4
Wisconsin	47.7	56.2	58.2	65.1	47.1	30.6	36.9	33.3	10.0

TABLE 142. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 2003–11

(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
Wyoming	0.2	0.3	0.8	0.4	0.6	0.0	0.5	1.2	0.5
Offices abroad[a]	1.0	NA	0.8	1.7	NA	0.0	0.0	0.0	0.0
Other areas[b]	NA	NA	NA	NA	NA	3.6	*	7.4	0.0

* = amount greater than $0 but less than $50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

[a] Includes R&D performed or administered in foreign countries by the U.S. government.

[b] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency (EPA); the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% of the federal R&D plant obligations in FY 2011. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2010, EPA was unable to report R&D plant by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D plant by performer and its location.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Appendix A. Technical Notes

Scope and Method

During the period May 2012–February 2013, a total of 27 federal agencies (15 federal departments and 12 independent agencies) submitted data in response to the National Science Foundation's (NSF's) annual Survey of Federal Funds for Research and Development (Federal Funds Survey). In some cases, multiple subdivisions of a federal department were requested to complete the survey. For the FYs 2011–13 survey cycle, overall data were collected for 74 agency-level offices (5 federal departments, 57 department subdivisions, and 12 independent agencies). Within these agency-level offices, 139 program-level offices, 204 field-level offices, and 206 branch-level offices provided data. The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when funds were appropriated or whether they were identified in the respondents' budgets as specifically being for R&D activities.

Only those agencies that had obligations in the variables presented in a particular table appear in that table. Obligations are amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays are amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated.

A complete list of definitions appears at the end of appendix A.

Appendix B provides a complete list of the federal agencies that have been included in the Federal Funds Survey. See appendix C for additional notes associated with these agencies.

Survey Instrument

Questions relating to American Recovery and Reinvestment Act of 2009 (ARRA) funding were removed for the volume 61 data collection.

Limitations of the Data

Funds for R&D were reported on a 3-year basis, comparable with the 2013 federal budget, on which the data were based. The amounts reported for each year are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by agencies and regardless of whether the agencies' budgets identified these funds as specifically being for research, development, R&D plant, or some combination of the three. The respondents reconciled the data reported to the Federal Funds Survey with the amounts for R&D they reported under Max Schedule C to the Office of Management and Budget (OMB) for the president's 2013 budget.

Some agencies are not able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD), estimated at a fraction of 1% of the agency's R&D total, are excluded because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD, in identifying and reporting these data. DOD respondents report obligations for R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DOD's appropriation for research, development, testing, and evaluation.

Revisions to the Data

During the volume 61 cycle, the Department of Agriculture's Economic Research Service revised its data for FY 2009.When completing the current year's survey, agencies revise their estimates for the latest 2 years of the previous report—in this case, FYs 2011 and 2012. Such revision is part of the budgetary cycle. From time to time, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When such revisions occur, NSF requests that the agencies provide revised prior-year data to maintain consistency and comparability with the most-recent R&D concepts.

Historical Changes

The scope of the survey has changed over time, and the survey instrument has been revised accordingly. Agency reporting methods have also changed over time, and survey data are not directly comparable for all years. The most recent changes are summarized below.

Scope

FYs 2009–11 and FYs 2010–12. Questions relating to ARRA funding were added for the volume 59 and 60 data collections. The survey collected separate outlays and obligations for ARRA and non-ARRA sources of funding, by performer and geography.

FYs 2005–07. Before the volume 55 survey cycle, NSF updated the list of foreign performers in the Federal Funds Survey to match the list of countries and territories in the Department of State's Bureau of Intelligence and Research fact sheet of Independent States in the World and fact sheet of Dependencies and Areas of Special Sovereignty. Area and country lists in volume 55 data tables and later may differ from those in previous reports.

November 2002. On 25 November, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS).

FYs 1996–98. The lines on the survey instrument for the special foreign currency program and for detailed field of science and engineering (S&E) were eliminated beginning with the volume 46 survey cycle. A special flier was included in the volume 46 packet mailing that listed the data items that were no longer required. Two tables depicting data on foreign performers, by region, country, and agency, that were removed before publication of volume 43 were reinstated with volume 46.

FYs 1994–96. During the volume 44 survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that NSF further clarify the true character of DOD's R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories: advanced technology development, and major systems development.

An excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics, NSF, explains the reasoning behind the DDR&E request:

> The DOD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies' entire R&D programs are equivalent in nature to DOD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DOD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

FYs 1993–95. Before publication of volume 43, NSF removed 54 tables that provided data on two items slated for elimination: the special foreign currency program, and detailed field of S&E for estimates for FYs

1994 and 1995. Data were collected from federal agencies for these two items through volume 45 (FYs 1995–97) but were not published. NSF also removed two tables depicting data on foreign performers, by region, country, and agency.

FYs 1992–94. Volume 42 was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier and comment on the proposed eliminations.

FYs 1990–92. Since volume 40, DOD has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. Circumstances specific to DOD are (1) DOD funds the preponderance of federal development, and (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories, which are separate from universities' academic departments, where university research is typically performed.

Reporting

FYs 2011–13. To enable complete reporting of R&D (both unclassified and classified) from DOD), DOD subagencies other than the Defense Advanced Research Projects Agency are reported as an aggregate total under other defense agencies. Consequently, DOD began reporting additional classified R&D not previously reported by its subagencies.

FYs 2010–12. The National Aeronautics and Space Administration (NASA) resumed reporting International Space Station obligations as R&D plant.

FY 2009. During the volume 60 survey cycle for FYs 2010–12, it was discovered that the Department of the Air Force (AF) incorrectly reported its FY 2009 data. AF slightly overreported its basic research by $4.7 million and its applied research by $9.7 million. In addition, AF overreported its advanced technology development by $206.9 million and substantially underreported its major systems development by $8.0 billion. AF has corrected its FY 2009 data.

FYs 2000–09. Beginning in FY 2000, AF did not report Budget Activity (BA) 6.7 Operational Systems Development data because the agency misunderstood the reporting requirements. During the volume 57 data collection cycle, AF edited prior-year data for FYs 2000–07 to include BA 6.7 Operational Systems Development data. These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise data for FYs 2000–06.

FY 2007. NASA's R&D obligations decreased by $1 billion between FYs 2006 and 2007. Of this amount, $850 million was accounted for by obligations for operational projects that NASA excluded in FY 2007 but reported in FY 2006. The remainder was from an overall decrease in obligations between FYs 2006 and 2007.

The Department of the Army (DA) overstated preliminary industry federally funded research and development centers' (FFRDCs') totals (major systems development, development, and R&D) reported in volume 56 of the Federal Funds series and understated industry totals. DA misreported approximately $3.2 billion of major systems development obligations to industry FFRDCs rather than to industry. The aggregate estimated totals in volume 56 were accurate, but the receiving sector was not. Actual FY 2007 data reported here correct this error.

FY 2006. NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

FY 2005. The Transportation Security Laboratory was moved from the Transportation Security Administration of DHS to the Science and Technology Directorate of DHS.

FYs 2004–06. NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project. NASA's data for FY 2004 and later years may not be directly comparable with its data for FY 2003 and earlier years.

FY 2004. The National Institutes of Health (NIH) revised its financial database; beginning with FY 2004, NIH records no longer contain information on the field of S&E. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.

FYs 2003–05. DHS was unable to determine adequate estimates for its R&D by the categories collected by the survey; therefore, NSF was not able to include DHS data in the volume 53 tables. Obligations that DHS was able to provide are shown below.

Department of Homeland Security component	Dollars in millions		
	FY 2003 actual	FY 2004 preliminary	FY 2005 preliminary
Transportation Security Administration	49.2	137.9	175.3
U.S. Coast Guard	15.0	23.7	NA
U.S. Secret Service	1.0	1.1	1.1
Science and Technology Directorate	NA	912.8	1,039.3

NA = not available.

FY 2003. Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that had been considered R&D in prior years.

FY 2000. NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Also in FY 2000, NIH reclassified as research the activities that it had previously classified as development. For more information on the classification changes at NASA and NIH, refer to *Classification Revisions Reduce Reported Federal Development Obligations* (InfoBrief NSF 02-309), February 2002, available at http://www.nsf.gov/statistics/nsf02309/.

Definitions

Definitions are essentially unchanged from those used in past surveys.

1. *Agency and subdivision.* An agency is an organization of the federal government whose principal executive officer reports to the president. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. Subdivision refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. *Obligations and outlays.* Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2011 and those estimated for FYs 2012 and 2013.

Obligations and outlays reported are consistent with figures shown for FYs 2011–13 appearing in the *Budget of the United States Government, Fiscal Year 2013.* The R&D data that agencies submit to OMB and to the Federal Funds Survey are based on the same definitions and are reconcilable.

The data include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the president.

The amounts shown for each year reflect obligations or outlays for that year, regardless of when funds were originally authorized or received and whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, each agency includes the amounts transferred to other agencies for support of R&D. The receiving agencies do not report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign-currency programs.

Funds reported for R&D reflect full-cost coverage, which includes the costs of specific R&D and the applicable overhead costs. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. *Fiscal year.* The accounting period for the federal government begins 1 October of a given year and ends 30 September of the following year; thus, FY 2011 began 1 October 2010 and ended 30 September 2011.

4. *Research, development, and R&D plant.* Amounts for R&D and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant as defined below, regardless of whether R&D is performed by a federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

   a. *Research* is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the sponsoring agency.

      Basic research is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

      Applied research is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

   b. *Development* is defined as systematic application of knowledge or understanding that is directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements.

      To better differentiate between the part of the federal R&D budget that supports science and key enabling technologies (including technologies for military and nondefense applications) and the part that primarily

supports testing and evaluation (mostly of defense-related systems), NSF collects development dollars from DOD in two categories: advanced technology development and major systems development.

DOD uses service codes 6.1–6.7 to classify data into the survey categories. Within DOD's research categories, basic research is classified as 6.1, and applied research is classified as 6.2. Within DOD's development categories, advanced technology development is classified as 6.3. Major systems development is classified as 6.4–6.7 and includes component developmental prototypes, demonstration and development of management support, and operational systems development.

c. *Demonstration* includes amounts for activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work). Demonstrations intended primarily to make information available about new technologies or methods are excluded.

d. *R&D plant* is defined as R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators. Amounts include acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at federal or nonfederal installations. Excluded from the R&D plant category are costs of expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under "total conduct of research and development." Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.

5. *Fields of science and engineering.* In this survey, there are eight broad field categories, each comprising a number of detailed fields. The broad fields are computer sciences and mathematics, engineering, environmental sciences, life sciences, physical sciences, psychology, social sciences, and other sciences not elsewhere classified (nec). The following list presents the broad fields and their associated detailed fields, together with illustrative disciplines within detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

a. *Computer sciences and mathematics and computer sciences* employs logical reasoning with the aid of symbols and is concerned with the development of methods of operation using such symbols or with the application of such methods to automated information systems. It comprises the detailed fields of computer sciences and mathematics. Examples of disciplines in these detailed fields are as follows:

Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology

Other computer sciences and mathematics

b. *Engineering* is concerned with developing engineering principles or making specific principles usable in engineering practice. Engineering in this survey is divided into eight detailed fields: aeronautical,

astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and other engineering. Examples of disciplines in these detailed fields are as follows:

Aeronautical engineering: aerodynamics

Astronautical engineering: aerospace, space technology

Chemical engineering: petroleum, petroleum refining process

Civil engineering: architectural, environmental, hydraulic, hydrologic, marine, sanitary, and structural engineering; transportation

Electrical engineering: communication, electronic engineering, power

Mechanical engineering: engineering mechanics

Metallurgy and materials engineering: ceramic engineering, mining, textile engineering, welding

Other engineering: agricultural engineering, bioengineering, biomedical engineering, industrial and management engineering, nuclear engineering, ocean engineering, systems engineering

c. *Environmental sciences* (terrestrial and extraterrestrial) is, with the exception of oceanography, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography, not biology. Environmental sciences comprises the detailed fields of atmospheric sciences, geological sciences, oceanography, and other environmental sciences. Examples of disciplines in these detailed fields are as follows:

Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification

Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology

Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography

Other environmental sciences

d. *Life sciences* is concerned with the scientific study of living organisms and their systems. It comprises five detailed fields: agricultural sciences, biological sciences (excluding environmental biology), environmental biology, medical sciences, and other life sciences. Examples of disciplines in these detailed fields are as follows:

Agricultural sciences: agronomy, animal sciences, food science and technology, fish and wildlife, forestry, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science, general agriculture

Biological sciences (excluding environmental biology): anatomy, biochemistry, biology, biometry and biostatistics, biophysics, botany, cell biology, entomology and parasitology, genetics, microbiology, neuroscience (biological), nutrition, physiology, zoology

Environmental biology: ecosystem sciences, evolutionary biology, limnology, physiological ecology, population and biotic community ecology, population biology, systematics

Medical sciences: dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine

Other life sciences

e. *Physical sciences* is concerned with understanding of the material universe and its phenomena. It comprises the detailed fields of astronomy, chemistry, physics, and other physical sciences. Examples of disciplines in these detailed fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; x-ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic, organic, organometallic, and physical chemistry

Physics: acoustics, atomic and molecular physics, condensed-matter physics, elementary particle physics, nuclear structure, optics, plasma physics

Other physical sciences

f. *Psychology* deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and other psychological sciences. Examples of disciplines in these categories are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Other psychological sciences

g. *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences comprises the detailed fields of anthropology, economics, political science, sociology, and other social sciences. Examples of disciplines in these detailed fields are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Other social sciences: linguistics, research in education, research in law (e.g., attempts to assess impact on society of legal systems and practices), socioeconomic geography

h. *Other sciences nec* is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

6. *Performer.* A performer is either an intramural group or an organization carrying out an operational function or an extramural organization or a person receiving support or providing services under a contract or grant.

a. *Intramural performers* are the agencies of the federal government. The work of these agencies is carried out directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another federal agency for performance of work, as long as the ultimate performer is that agency or any federal agency. If the ultimate performer is not a federal agency, funds transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

Intramural activities cover not only actual intramural R&D performance but also the costs associated with planning and administration of both intramural and extramural programs by federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment (equipment that has gone beyond the development or prototype stage) procured for use in intramural R&D. For example, an operational launch vehicle purchased from an extramural source by NASA and used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

b. *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered part of the costs of intramural performance and not part of the costs of extramural performance. Extramural performers are identified as follows:

(1) Industrial firms—organizations that may legally distribute net earnings to individuals or to other organizations.

(2) Universities and colleges—institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, such as schools of engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

(3) Other nonprofit institutions—private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

(4) FFRDCs—R&D-performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or in some instances to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution. (A complete list of FFRDCs is provided in appendix D.)

In general, an organization included in the FFRDC category meets all the following criteria:

(a) Its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).

(b) It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.

(c) It performs actual R&D or R&D management either upon direct request by the federal government or under a broad charter from the federal government but, in either case, under the direct monitoring by the federal government.

(d) It receives its major financial support (70% or more) from the federal government (usually from one agency).

(e) It has or is expected to have a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.

(f) Most or all of its facilities are owned by or are funded under contract with the federal government.

(g) It has an average annual budget (operating and capital equipment) of at least $500,000.

(5) State and local governments—state and local government agencies, excluding state or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions excluded in this category are included under the universities and colleges category in this report.) R&D activities under the state and local governments category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, federal R&D funds directed to state and local governments are reported only under this sector.

(6) Foreign performers—foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; the United Nations Educational, Scientific, and Cultural Organization; and the World Health Organization), performing R&D work abroad financed by the federal government. Excluded from the survey are U.S. agencies, organizations, or citizens performing R&D abroad for the federal government. The survey does not seek information on offshore payments. An exception in the past was made in the case of U.S. citizens performing R&D abroad under special foreign-currency funds; these activities were included under the foreign performers category but have not been collected since the mid-1990s.

(7) Private individuals—When an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under the category industrial firms.

7. *Federal obligations for research performed at universities and colleges, by detailed field of science.* Only seven agencies are required to respond to the portion of the survey covering federal funding of research at universities and colleges, by detailed field of science. These seven agencies—the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; NASA; and NSF—represented over 97% of the federal research obligations to universities and colleges in FY 2011.

8. *Geographic distribution of FY 2011 R&D obligations.* Only the 11 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D

and R&D plant. These 11 agencies—the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF—accounted for over 98% of total federal R&D and R&D plant obligations in FY 2011.

a. For actual FY 2011 data, respondents were asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization. When this information was not available, respondents were asked to assign the obligations to the location (state, outlying area, or U.S. offices abroad) of the headquarters of the U.S. primary contractor, grantee, or intramural organization.

b. Obligations for basic research, applied research, and development were reported as a combined R&D amount for non-DOD agencies. However, DOD agencies break out development obligations by advanced technology development and major systems development. Therefore, obligations for basic research, applied research, advanced technology development, and major systems development were reported as a combined R&D amount for DOD agencies.

   Geographic distribution of DOD development funding to industry reflects only the location of prime contractors, not the location of the numerous subcontractors who perform most of the R&D.

c. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds Survey.

Appendix B. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–61

This appendix summarizes which agencies have reported to the Survey of Federal Funds for Research and Development (Federal Funds Survey) and have been included in Federal Funds reports for volume 29 (FYs 1979–81) through volume 61 (FYs 2011–13). For volume 61, actual data were collected for FY 2011, and estimates were collected for FY 2012 and FY 2013.

Symbols and Acronyms
N = The agency did not exist as such; therefore, no data are available.
O = The agency existed but had no R&D to report.
T = The agency existed, but data were not collected at this level.
X = The agency existed, and data were collected and submitted by the agency.
Z = The agency existed but was unable to report.
DT&E = Developmental test and evaluation.
RDT&E = Research and development, testing, and evaluation.

Agency	Volume																																
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
Department of Agriculture	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economic Research Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Foreign Agricultural Service	N	N	N	N	N	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Institute of Food and Agriculture (formerly Cooperative State Research, Education, and Extension Service)	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Transportation	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	T	T	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of Commerce	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Agency	Volume 29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of Defense	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Defense Agencies	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	T
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	T
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	T
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Defense Nuclear Agency	O	O	O	O	O	O	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	O	O	O	O	O
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Defense Technical Information Center	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Joint Staff	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Missile Defense Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	X	X	X	X	O	X	X	O	O	O	O	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Special Operations Command	O	O	O	O	X	X	X	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T

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Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary of Defense	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	T
Washington Headquarters Services	X	X	X	X	X	X	X	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
DT&E Support From Operations and Maintenance	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T
DT&E Support From Procurement Appropriations	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T
Materiel Command	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	T	T	T
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X
Civil Functions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	N	N	N	N	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

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Operational Test and Evaluation, Director	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Other Defense Agencies	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
Department of Education	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Department of Energy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Advanced Research Projects Agency-Energy (formerly Energy Transformation Acceleration Fund)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Civilian Radioactive Waste Management	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Electricity Delivery and Energy Reliability	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Environmental Management	N	N	N	N	N	N	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Fossil Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X	X
Defense Programs	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X	X
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X	O
Naval Reactors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X	X
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X	X
Nuclear Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Office of Intelligence	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Office of Science	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Department of Health, Education, and Welfare	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Centers for Disease Control and Prevention	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

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National Institutes of Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of Health and Human Services	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Administration for Children and Families	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Administration on Aging	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O
Agency for Healthcare Research and Quality (formerly Agency for Health Care Policy and Research)	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	X	X
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Centers for Medicare & Medicaid Services (formerly Health Care Financing Administration)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Resources and Services Administration	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Health Services Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Human Development Services	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health (formerly Office of Public Health and Science)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O
Social Security Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O

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Department of Homeland Security	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	Z	T	T	T	T	T	T	T	T
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Z	Z	X	X	X	X	X	X	X	X
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	Z	X	X	X	X	O	O	O	O
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	O
Department of Housing and Urban Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Department of the Interior	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	O	O	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Bureau of Mines	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Ocean Energy Management	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Bureau of Ocean Energy Management, Regulation, & Enforcement (formerly Minerals Management Service)	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bureau of Safety and Environmental Enforcement	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Biological Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Office of Water Research and Technology	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of Justice	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

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Bureau of Prisons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of Labor	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O
Employee Benefits Security Administration	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Labor-Management Services Administration	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O
Pension Benefit Guaranty Corporation	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of State	T	T	T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Departmental Funds	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Department of Transportation	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
Department of the Treasury	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N	N	O	X	X	X	X	X	X	X	X	X	X	X	X	Z	Z	Z	Z	Z	O	O	O	O
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N
U.S. Mint	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N
Department of Veterans Affairs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Post Office Department	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Other agencies																																	
ACTION	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	O	O	O	O	O
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Community Services Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Agency	Volume																															
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Appendix C. Notes Associated with Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–61

These notes include explanatory information on federal agencies' reports for volume 29 (FYs 1979–81) through volume 61 (FYs 2011–13) of the Survey of Federal Funds for Research and Development (Federal Funds Survey). For volume 61, actual data were collected for FY 2011, and estimates were collected for FYs 2012 and 2013.

Department of Agriculture	
Agricultural Marketing Service	Although the Agricultural Marketing Service was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency.
	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	The Cooperative State Research Service merged with the Extension Service on 19 October 1994 to become the Cooperative State Research, Education, and Extension Service (CSREES) due to reorganization of the Department of Agriculture. CSREES changed its name to the National Institute of Food and Agriculture in FY 2008.
Economic Research Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service (ERS), the Statistical Reporting Service (SRS), and the Farmer Cooperative Service for FYs 1977–79.
	Data reported for the Economics and Statistics Service include programs of ERS and SRS for FY 1980.
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FYs 1977–79.
Federal Grain Inspection Service	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Foreign Agricultural Service	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Grain Inspection, Packers, and Stockyards Administration	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
National Institute of Food and Agriculture	The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.

Department of Commerce	
Maritime Administration	In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
Department of Defense	
	Department of Defense (DOD) research has been reported separately from DOD development since volume 40 (FYs 1990–92). More than 90% of development reported by DOD for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching.
	DOD development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96).
	Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FYs 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.
	Beginning with volume 54 (FYs 2004–06), DOD now requires its reporting agencies to adhere to DOD control numbers when providing data to the Federal Funds Survey.
Defense Agencies	
Chemical and Biological Defense	Before FY 2000, R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Business Transformation Agency	The Defense Business Transformation Agency was established on 7 October 2005.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Contract Management Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Information Systems Agency	Data reported for the Defense Information Systems Agency included data for the Defense Technical Information Center (DTIC) until FY 2006, when DTIC became a separate field activity.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Logistics Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Security Cooperation Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency (DSWA) in 1996 as a result of a new charter and an expanded mission.
	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, DSWA, and the On-Site Inspection Agency.
Defense Technical Information Center	In FY 2006, the Defense Technical Information Center became a separate field activity; in prior years, these data were reported as part of the Defense Information Systems Agency.

	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Missile Defense Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
Office of the Secretary of Defense	In FY 2006, the Washington Headquarters Service was renamed the Office of the Secretary of Defense. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Special Operations Command	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Uniformed Services University of the Health Sciences	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45 (FYs 1995–97).
Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' (WHS's) submission as of volume 45 (FYs 1995–97). Public Law No. 103-160, Section 1703, made the Office of the Secretary of Defense (OSD) responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements be established in the President's Budget for FYs 1996–97. Data for these new program elements are included in the Federal Funds Survey as of volume 46 (FYs 1996–98). Since FY 2000, R&D of Chemical and Biological Defense has been reported separately from the WHS. WHS's basic research data were revised in volume 47 (FYs 1997–99) to reflect changes that were not incorporated in volume 46 (FYs 1996–98). In FY 2006, WHS was renamed OSD.
Department of the Air Force	Beginning in FY 2000, the Department of the Air Force (AF) did not report Budget Activity (BA) 6.7 Operational Systems Development data, because the agency misunderstood reporting requirements. During the volume 57 data collection cycle, AF edited prior-year data for FYs 2000–07 to include BA 6.7 Operational Systems Development data. In FY 2008, AF did not include its BA 6.7 Operational Systems Development in its preliminary data for FYs 2009 and 2010; therefore, these data are not comparable with FY 2008 (actual) data.
Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
Department of the Army Civil Functions	Department of the Army (DA), Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development and Related Agencies Appropriations Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, the funds are shown in the advanced technology total for DA.

Operational Test and Evaluation, Director	On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
Other defense agencies	Beginning with volume 61 (FYs 2011–13), other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.
Test and Evaluation, Deputy under Secretary of Defense	On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in other defense agencies.
Department of Energy	
	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Advanced Research Projects Agency-Energy	In FY 2007, the president signed the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act (America COMPETES), which authorized the creation of the Advanced Research Projects Agency-Energy. In FY 2009, Congress appropriated $400 million to fund the agency's first projects.
Bonneville Power Administration	In FY 1982, the Bonneville Power Administration became part of the Department of Energy.
Energy Delivery and Energy Reliability	In March 2003, the Department of Energy (DOE) created the Office of Electric Transmission and Distribution and the Office of Energy Assurance. In 2005, both offices and elements of the DOE Office of Fossil Energy were merged into the new Office of Electricity Delivery and Energy Reliability.
Department of Health and Human Services	
Administration on Aging	In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
Administration for Children and Families	Obligations reported for the Administration for Children and Families (ACF) may be incomplete for FY 1992 due to unavailability of data.
	In FY 1991, Human Development Services was replaced by ACF and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
Agency for Healthcare Research and Quality	In FY 1991, the Agency for Health Care Policy and Research (AHCPR) became separate from the Office of the Assistant Secretary for Health.
	AHCPR was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the president on 6 December 1999.
Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.

Human Development Services	In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
	In FY 2000, NIH reclassified all of its development activities as research.
	NIH has revised its financial database, and, beginning with FY 2004, NIH records no longer contain information on the field of science and engineering. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.
Office of the Assistant Secretary for Health	In FY 1991, the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health (ASH).
	ASH merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FYs 2003–06 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
Department of Homeland Security	
	On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Science and Technology Directorate, Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service.
Science and Technology Directorate	The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate.
Department of the Interior	
Bonneville Power Administration	In FY 1982, the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Mines	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Ocean Energy Management	The Bureau of Ocean Energy Management, Regulation and Enforcement was split into Bureau of Ocean Energy Management and Bureau of Safety and Environmental Enforcement in FY 2012.
Bureau of Ocean Energy Management, Regulation, and Enforcement	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE).

	BOEMRE was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.
Bureau of Safety and Environmental Enforcement	The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.
Geological Survey	The Office of Water Research and Technology has been combined with the Geological Survey (USGS) since 1985.
	Funding for the National Biological Service (NBS) comes from USGS's congressional appropriation. Since FY 1996, data for NBS have been included with USGS's submission.
	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Minerals Management Service	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement.
National Biological Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
	Funding for NBS comes from the Geological Survey's (USGS's) congressional appropriation. Since FY 1996 data for the NBS have been included with USGS's submission.
National Park Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service (NPS).
	Obligations for FYs 2003–08 are for NPS's natural resources program; data for the cultural resources program were not available.
Office of the Secretary	The Department of the Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
U.S. Fish and Wildlife Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
Department of Justice	
Bureau of Prisons	The Bureau of Prisons was previously listed as the Federal Prison System.
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's R&D funding amounts for FYs 1996 and 1997 due to changes in the agency's R&D programs.
Immigration and Naturalization Service	The Immigration and Naturalization Service (INS) figures for FYs 1997–99 are based on the agency's volume 46 (FYs 1996–98) submission.
	On 1 March 2003, service and benefit functions of INS were transferred to the Department of Homeland Security as the U.S. Citizenship and Immigration Services.
Department of Labor	
Labor-Management Relations and Cooperative Programs	In 1984, Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Labor-Management Services Administration	In 1984, Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Department of State	
	The Agency for International Development (USAID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979.

	Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with USAID. DOS transfers these outlays and obligations to other R&D performers.
	Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to DOS.
	On 1 October 1999, the U.S. Information Agency was integrated into DOS.
Agency for International Development	The Agency for International Development (USAID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979.
	Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with USAID. DOS transfers these outlays and obligations to other R&D performers.
Department of Transportation	
Federal Highway Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).
Federal Motor Carrier Safety Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).
Federal Transit Administration	The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.
Maritime Administration	In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
	Since FY 1996, the Maritime Administration has had no directly appropriated funding for R&D activities.
U.S. Coast Guard	On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Coast Guard.
Department of the Treasury	
Internal Revenue Service	Due to the reorganization of the Internal Revenue Service (IRS) and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 (FYs 1991–93) submission.
	Large changes in obligations reported by IRS for volume 44 (FYs 1994–96) are due to shifts in research funding.
Office of Thrift Supervision	In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.
U.S. Customs Service	The U.S. Customs Service (USCS) figures for FYs 1997–99 are based on the agency's volume 46 (FYs 1996–98) submission.
	Beginning in FY 2003, the USCS Research & Development program was transferred to other subagencies of the Department of Homeland Security.
U.S. Secret Service	On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Secret Service (USSS).
	USSS was formerly listed as the Office of Protective Research.
Other agencies	
Broadcasting Board of Governors	The Broadcasting Board of Governors became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the president on 21 October 1998.
Environmental Protection Agency	The Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its R&D by performer for FYs 2010–12 and by location for FY 2010.

	Before FY 2000, data reported for EPA included R&D data for the Agency for Toxic Substances and Disease Registry.
Federal Emergency Management Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency (FEMA) on 20 July 1979.
	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to FEMA on 1 April 1979.
General Services Administration	Since 1985, the National Archives and Records Administration has been separate from the General Services Administration.
International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
Agency for International Development	Increases in outlays and obligations reported by the Department of State (DOS) during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development (USAID). DOS transfers these outlays and obligations to other R&D performers.
	USAID's new integrated system for budget and accounting records does not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation has estimated these data based on USAID's Budget Authority (FYs 2000–02) and USAID's Federal Funds Survey submission to volume 44 (FYs 1994–96). More accurate data for USAID will be reported in future volumes of this survey.
	USAID transferred from DOS to the International Development Cooperation Agency on 1 October 1979.
National Aeronautics and Space Administration	During the volume 45 (FYs 1995–97) survey cycle, the National Aeronautics and Space Administration (NASA) made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.
	In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.
	Data for FY 2004 and later years may not be directly comparable with data for FY 2003 and earlier years. In FY 2004, NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project.
	In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. Between FYs 2006 and 2007, NASA R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FYs 2006 and 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant.
National Archives and Records Administration	Since 1985, the National Archives and Records Administration has been separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Tennessee Valley Authority	During the volume 47 (FYs 1997–99) survey cycle, the Tennessee Valley Authority (TVA) made adjustments to its 1996–99 R&D values to correct reporting errors. In

	recent years, most of the funds TVA has reported have been those invested by TVA's Office of Power rather than congressionally appropriated funds. In addition, a substantial amount of congressionally appropriated funds earmarked for environmental compliance and site restoration was erroneously reported as R&D in past years. TVA has determined that these funds do not meet the criteria for classification as R&D spending. Some trend shifts are related to these adjustments because TVA can only make revisions as far back as 1996.
U.S. Arms Control and Disarmament Agency	FY 1994 figures for the U.S. Arms Control and Disarmament Agency (ACDA) are based on the agency's volume 43 (FYs 1993–95) submission.
	Effective 1 April 1999, all functions and authorities of ACDA were transferred to the Department of State.
U.S. Information Agency	Data reported for the U.S. Information Agency (USIA) include funds for the former International Communication Agency for FYs 1977–81.
	On 1 October 1999, USIA was integrated into the Department of State.
U.S. International Trade Commission	In 2000, the U.S. International Trade Commission stopped classifying any of its activities as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Appendix D. Federally Funded Research and Development Centers, by Agency and Type of Administration

The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 61 data collection (FYs 2011–13). The list is arranged by sponsoring agency and administering organization. Respondents used the FFRDC category to report funds obligated to centers identified on this list. FFRDC administrators are listed in parentheses.

Department of Defense

Assistant Secretary of Defense for Research and Engineering

Administered by universities and colleges, including university consortia

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of the Air Force

Administered by nonprofit institutions other than universities and colleges

Aerospace FFRDC (The Aerospace Corp.), El Segundo, CA

Project Air Force (RAND Corp.), Santa Monica, CA

Department of the Army

Administered by nonprofit institutions other than universities and colleges

Arroyo Center (RAND Corp.), Santa Monica, CA

Department of the Navy

Administered by nonprofit institutions other than universities and colleges

Center for Naval Analyses (The CNA Corporation), Alexandria, VA

National Security Agency

Administered by nonprofit institutions other than universities and colleges

Center for Communications and Computing (Institute for Defense Analyses), Alexandria, VA

Office of the Secretary of Defense

Administered by nonprofit institutions other than universities and colleges

National Defense Research Institute (RAND Corp.), Santa Monica, CA

National Security Engineering Center (MITRE Corp.), Bedford, MA, and McLean, VA

Studies and Analyses Center (Institute for Defense Analyses), Alexandria, VA

Department of Energy

Administered by industrial firms

Idaho National Laboratory (Battelle Energy Alliance, LLC), Idaho Falls, ID

Lawrence Livermore National Laboratory (Lawrence Livermore National Security, LLC), Livermore, CA

Los Alamos National Laboratory (Los Alamos National Security, LLC), Los Alamos, NM

Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque, NM

Savannah River Technology Center (Savannah River Nuclear Solutions, LLC), Aiken, SC

Administered by universities and colleges, including university consortia

Ames Laboratory (Iowa State University of Science and Technology), Ames, IA

Argonne National Laboratory (UChicago Argonne, LLC), Argonne, IL

Fermi National Accelerator Laboratory (Fermi Research Alliance, LLC), Batavia, IL

Lawrence Berkeley National Laboratory (University of California), Berkeley, CA

Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ

SLAC National Accelerator Laboratory (Leland Stanford, Jr., University), Stanford, CA

Thomas Jefferson National Accelerator Facility (Jefferson Science Associates, LLC), Newport News, VA

Administered by nonprofit institutions other than universities and colleges

Brookhaven National Laboratory (Brookhaven Science Associates, LLC), Upton, NY

National Renewable Energy Laboratory (Alliance for Sustainable Energy, LLC), Golden, CO

Oak Ridge National Laboratory (UT-Battelle LLC), Oak Ridge, TN

Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms

National Cancer Institute at Frederick (SAIC-Frederick, a subsidiary of Science Applications International Corp.), Frederick, MD

Department of Homeland Security

Under Secretary for Science and Technology

Administered by nonprofit institutions other than universities and colleges

Homeland Security Studies and Analysis Institute (Analytic Services, Inc.), Arlington, VA

Homeland Security Systems Engineering and Development Institute (MITRE Corp.), McLean, VA

National Biodefense Analysis and Countermeasures Center (Battelle National Biodefense Institute), Frederick, MD

Department of Transportation

Federal Aviation Administration

Administered by nonprofit institutions other than universities and colleges

Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA

Department of the Treasury

Internal Revenue Service (IRS)

Administered by nonprofit institutions other than universities and colleges

Center for Enterprise Modernization (MITRE Corp.), McLean, VA

National Aeronautics and Space Administration

Administered by universities and colleges, including university consortia

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

National Science Foundation

Administered by universities and colleges, including university consortia

National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR

National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder, CO

National Optical Astronomy Observatories (Association of Universities for Research in Astronomy Inc.), Tucson, AZ

National Radio Astronomy Observatory (Associated Universities Inc.), Charlottesville, VA, and Green Bank, WV

Administered by nonprofit institutions other than universities and colleges

Science and Technology Policy Institute (Institute for Defense Analyses), Washington, DC

Nuclear Regulatory Commission

Administered by nonprofit institutions other than universities and colleges

Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

United States Courts

Administered by nonprofit institutions other than universities and colleges

Judiciary Engineering and Modernization Center (MITRE Corp.), McLean, VA

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics. Updates of this list and an annotated list of FFRDCs are available at http://www.nsf.gov/statistics/ffrdclist/.

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